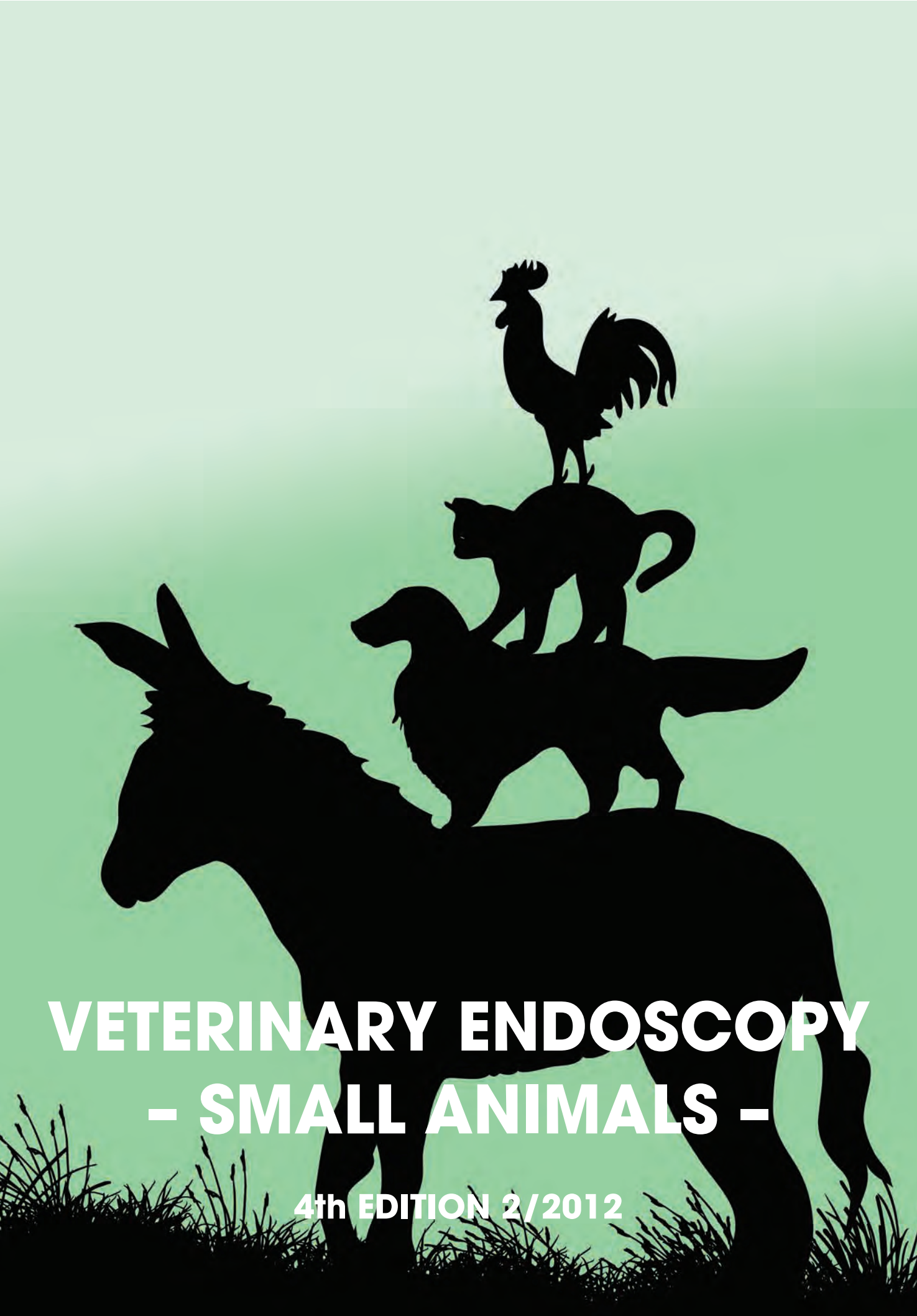

VETERINARY ENDOSCOPY
– SMALL ANIMALS –

4th EDITION 2/2012

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STORZ

THE WORLD OF ENDOSCOPY

Not all the products listed in this document are certified according to Regulation 2017/745/EU.

For this reason, some products requiring certification under this regulation may not be available in these countries.

VETERINARY ENDOSCOPY
– SMALL ANIMALS –

4th EDITION 2/2012

Important Notes:

Endoscopes and accessories contained in this catalog have been designed in part with the cooperation of physicians and are manufactured by the KARL STORZ group. If subcontractors are hired to manufacture individual components, these are made according to proprietary KARL STORZ plans or drawings. Furthermore, these products are subject to strict quality and control guidelines of the KARL STORZ group. Both contractual and general legal provisions prohibit subcontractors from supplying components manufactured by order of KARL STORZ to competitors.

Any assumptions that competitors' endoscopes and accessories are acquired from the same suppliers as the KARL STORZ products are not correct. Moreover, endoscopes and instruments provided by competitors are not manufactured according to the design specifications of KARL STORZ. This means it cannot be assumed that these endoscopes and accessories – even if they look identical on the outside – are constructed in the same manner and have been tested according to the same criteria.

Standardized Design and Labeling

KARL STORZ participates both in national and international bodies involved in the development of standards for endoscopes and endoscopic accessories. Standardized design and development therefore have long been implemented consistently by KARL STORZ. The user can rest assured that all products by the KARL STORZ group have been designed and constructed not only in compliance with strict internal quality guidelines, but also with international standards. All data relevant for safe use, such as viewing direction, sizes and diameters, or notes regarding sterilization of telescopes, are applied to the instruments, have been formulated according to international standards, and therefore provide reliable information.

As we constantly seek to improve and modify our products, we reserve the right to make changes in design that vary from catalog descriptions.

Original or Counterfeit

KARL STORZ products are name brand articles renowned around the world and represent the state of the art in important areas of healthcare. A large number of "copy cat" products are currently being offered in many markets. These products are designed intentionally to resemble KARL STORZ products and use marketing strategies that at least point out their compatibility with KARL STORZ products. These products are by no means genuine products, since genuine KARL STORZ products are sold worldwide exclusively under the name of KARL STORZ, which appears on the packaging and the product. In the absence of such labeling, the product is not from KARL STORZ.

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OTOSCOPY AND RHINOSCOPY

Endoscopic photos courtesy of Dr. Timothy C. McCarthy

Ear Diagnostic Set

KARL STORZ — ENDOSKOPE

Diagnostic otoscopy in veterinary medicine is one of the most important fields of application in endoscopy. Disorders of the external ear are common in dogs, therefore, the easy accessibility afforded by this technique makes otoendoscopy an ideal examination method.

A rigid endoscope can also be utilized to examine the middle ear.

KARL STORZ now offers a new veterinary otoscopy set which consists of an otoscope with a 0° forward-oblique telescope and a 3-way stopcock.

The shape of the telescope and its length facilitate thorough examination even in large breed dogs.

The instrument set can also be used for treatment, i.e. flushing the ear canal, suction, removal of foreign bodies, etc.

Used in conjunction with a KARL STORZ camera system and a video recorder or printer, it provides a precise means of assessing clinical results and documenting findings.

67260 OSA

67260 OSA **Veterinary Otoscope Set**
including:
Otoscope, for dogs and cats, **autoclavable,** diameter 5 mm, length 8.5 cm, with working channel diameter 5 Fr.
Stopcock Attachment, with integrated working channel and LUER-Lock adaptor for irrigation

Optional Accessories

60651 BK **Cleaning Brush,** flexible, for use with working channels up to 2.3 mm, length 25 cm

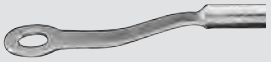
NEW 69003 HH **Otoscope Camera Head Holder,** for combining Otoscope 67260 AA with **non-autoclavable** TELECAM camera head and Veterinary Video Camera III camera head

NEW 15006 D "ULTRA STOP" **Antifog Solution,** 15 ml, atomizer bottle

10-00₂

Optional accessories for ear flushing and suction see chapter 11, UNITS, VETPUMP® II
Camera systems and accessories for documentation see chapter 12, EXCERPT FROM TELEPRESENCE
Components/Spare Parts see chapter 14

67261 K **Ear Curette,** small, 5 Fr., length 30 cm



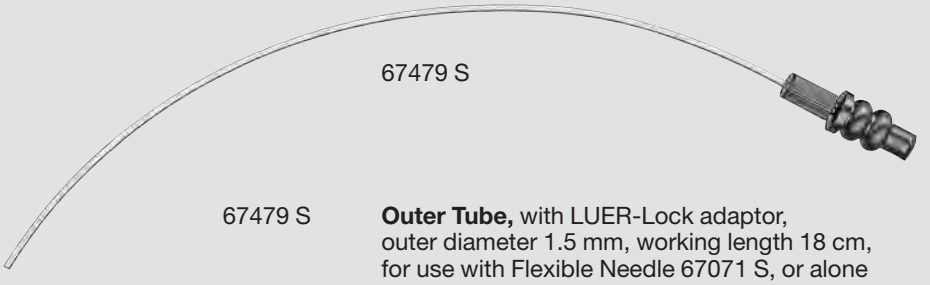
67261 KL **Ear Curette,** large, for insertion in the working channel from the distal end, length 30 cm

67161 T **Grasping Forceps,** flexible, double action jaws, 5 Fr., length 34 cm

67161 Z **Biopsy Forceps,** flexible, oval, double action jaws, 5 Fr., length 34 cm

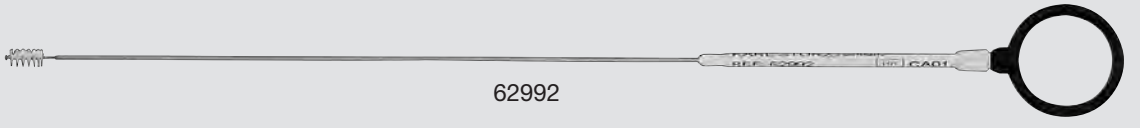
67071 XS **Myringotomy Needle,** with outer tube including:
Flexible Needle, outer diameter 0.7 mm
Outer Tube, 1.5 mm

67159 L **Polypectomy Snare,** 5 Fr., length 32 cm including:
Handle
Tube
Snare
Adaptor



67479 S

67479 S **Outer Tube,** with LUER-Lock adaptor, outer diameter 1.5 mm, working length 18 cm, for use with Flexible Needle 67071 S, or alone for suction and irrigation



62992

NEW 62992 **OTEX® Brush,** 5 Fr., bristle diameter 5 mm, length 19 cm

NEW 62993 **OTEX® Brush,** 5 Fr., bristle diameter 7 mm, length 19 cm

1-12

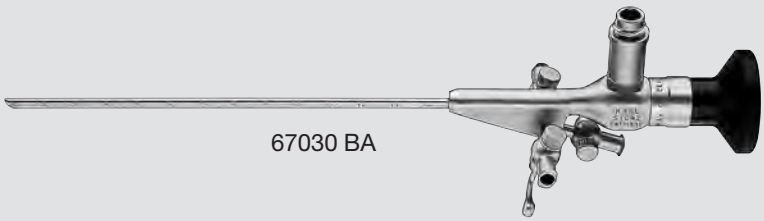
Components/Spare Parts see chapter 14

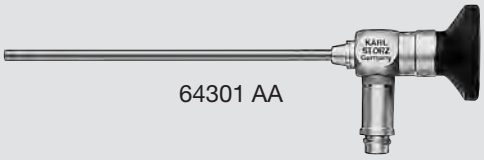
11301 D1/D3/D4/DE/DF

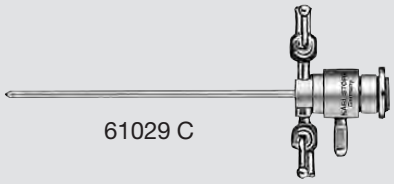
11301 D1	**Battery Light Source LED for Endoscopes,** with fine screw thread, brightness > 100 lm / > 150 klx, burning time > 120 min, weight approx. 150 g, waterproof and fully immersible for manual cleaning and disinfection, with 2 Photo Batteries 121306 P
11301 D3	**Same,** with coarse thread
11301 D4	**Same,** with fast screw thread, **suitable for wipe disinfection**
121306 P	**Photo Battery,** lithium, 3 V, CR 123 A
11301 DE	**Battery Light Source LED for Endoscopes,** rechargeable, with click connection, brightness > 110 lm / >150 klx, color temperature 5500 K, lithium-ion batteries, charging time 60 min, burning time at 100% brightness 40 min, weight approx. 150 g ready for use, **suitable for wipe disinfection**
11301 DF	**Battery Light Source LED for Endoscopes,** rechargeable, with fast screw thread, brightness > 110 lm / 150 klx, color temperature 5500 K, lithium-ion batteries, charging time 60 min, burning time at 100% brightness 40 min, weight approx. 150 g ready for use, **suitable for wipe disinfection**
094129	**Battery Charger Li-Ion,** for charging the rechargeable battery box, power supply 100 – 240 VAC, 50/60 Hz
094127	**Mains Cord,** for Battery Charger 094129, length 150 cm

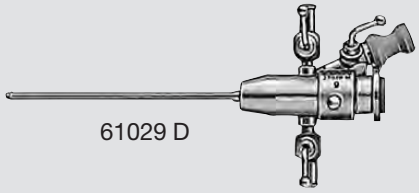
Rhinoscopy

1.9 mm Telescopes, for rhinoscopy, pharyngoscopy and laryngoscopy, especially for cats and small dogs

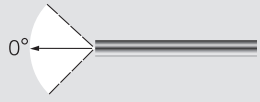

67030 BA


64301 AA


61029 C


61029 D

67030 BA **Operating Telescope 30°,** 9.5 Fr., working length 14 cm, **autoclavable,** fiber optic light transmission incorporated, with working channel 3 Fr. and 2 LUER-Lock cones
color code: red



64301 AA **HOPKINS® Straight Forward Telescope 0°,** diameter 1.9 mm, length 10 cm, **autoclavable,** fiber optic light transmission incorporated,
color code: green

64301 BA **HOPKINS® Forward-Oblique Telescope 30°,** diameter 1.9 mm, length 10 cm, **autoclavable,** fiber optic light transmission incorporated,
color code: red

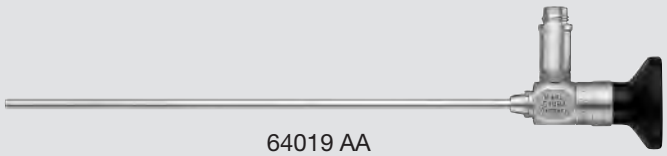
61029 C **Protection and Examination Sheath,** working length 8.5 cm, with Obturator 61029 CO and 2 LUER-Lock cones,
color code: blue

61029 D **Operating Sheath,** 9 Fr., diameter 2.5 cm, working length 7 cm, with Obturator 61029 DO and working channel 3 Fr.,
color code: red

61071 TJ **Grasping Forceps,** for removing foreign bodies, double-action jaws, flexible, 3 Fr., length 28 cm

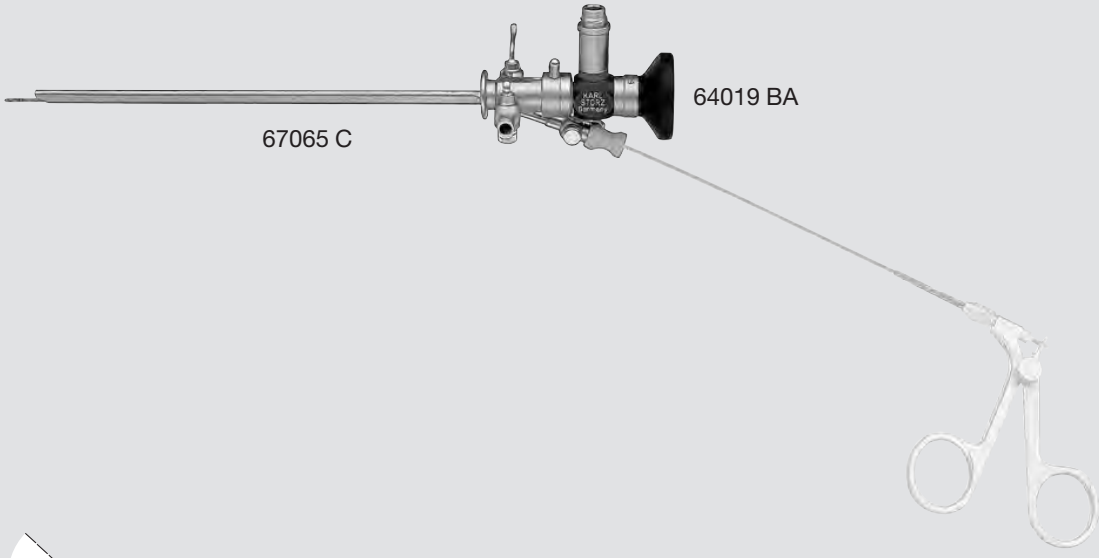
61071 ZJ **Biopsy Forceps,** double-action jaws, flexible, 3 Fr., length 28 cm

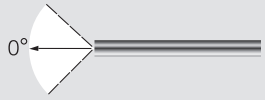
10-00₂



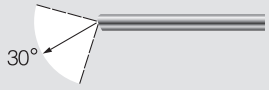
64019 AA

Telescope and sheath with working channel for biopsy and the removal of foreign bodies





64019 AA **HOPKINS® II Straight Forward Telescope 0°,** diameter 2.7 mm, length 18 cm, **autoclavable,** fiber optic light transmission incorporated, color code: green



64019 BA **HOPKINS® II Forward-Oblique Telescope 30°,** diameter 2.7 mm, length 18 cm, **autoclavable,** fiber optic light transmission incorporated, color code: red

67065 C **Sheath,** 14.5 Fr., working length 15 cm, with working channel 5 Fr. and two stopcocks, including blunt Obturator 67065 CO

67161 T **Grasping Forceps,** flexible, double action jaws, 5 Fr., length 34 cm

67161 Z **Biopsy Forceps,** flexible, oval, double action jaws, 5 Fr., length 34 cm

64018 US **Examination and Protection Sheath,** diameter 3.5 mm, working length 17 cm, for Telescope 64019 BA

Additional instruments for the working channel of Sheath 67065 C see chapter 9, page 138

10-00₂

Nasal Forceps

15 cm

69117 Z

69117 Z **Biopsy Forceps,** rigid, round cupped jaws, diameter 1.7 mm, working length 15 cm

14 cm

69133

69133 **Biopsy and Grasping Forceps,** with oval cups 3 mm, sheath diameter 1.5 mm, working length 14 cm

11 cm

69100 – 69102

69100 BLAKESLEY **Forceps,** straight, size 0 (3 mm), working length 11 cm

69101 **Same,** size 1 (3.5 mm)

69102 **Same,** size 2 (4 mm)

12.5 cm

634824

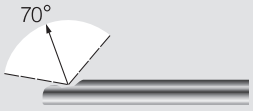
634824 STRÜMPEL **Forceps,** with oval, fenestrated, cupped jaws, straight, width 2.5 mm, working length 12.5 cm

1-12

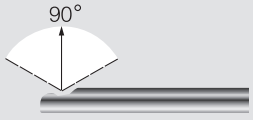
Nasopharyngeal Endoscopes

Postrhinoscope with Uvula Retractor

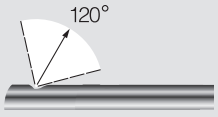
723014 **Uvula Retractor,** for use with HOPKINS® II Telescopes 7230 CWA/DA/EA



7230 CWA **HOPKINS® II Wide Angle Lateral Telescope 70°,** enlarged view, diameter 4 mm, length 18 cm, **autoclavable,** fiber optic light transmission incorporated, color code: yellow



7230 DA **HOPKINS® II Lateral Telescope 90°,** enlarged view, diameter 4 mm, length 18 cm, **autoclavable,** fiber optic light transmission incorporated, color code: blue



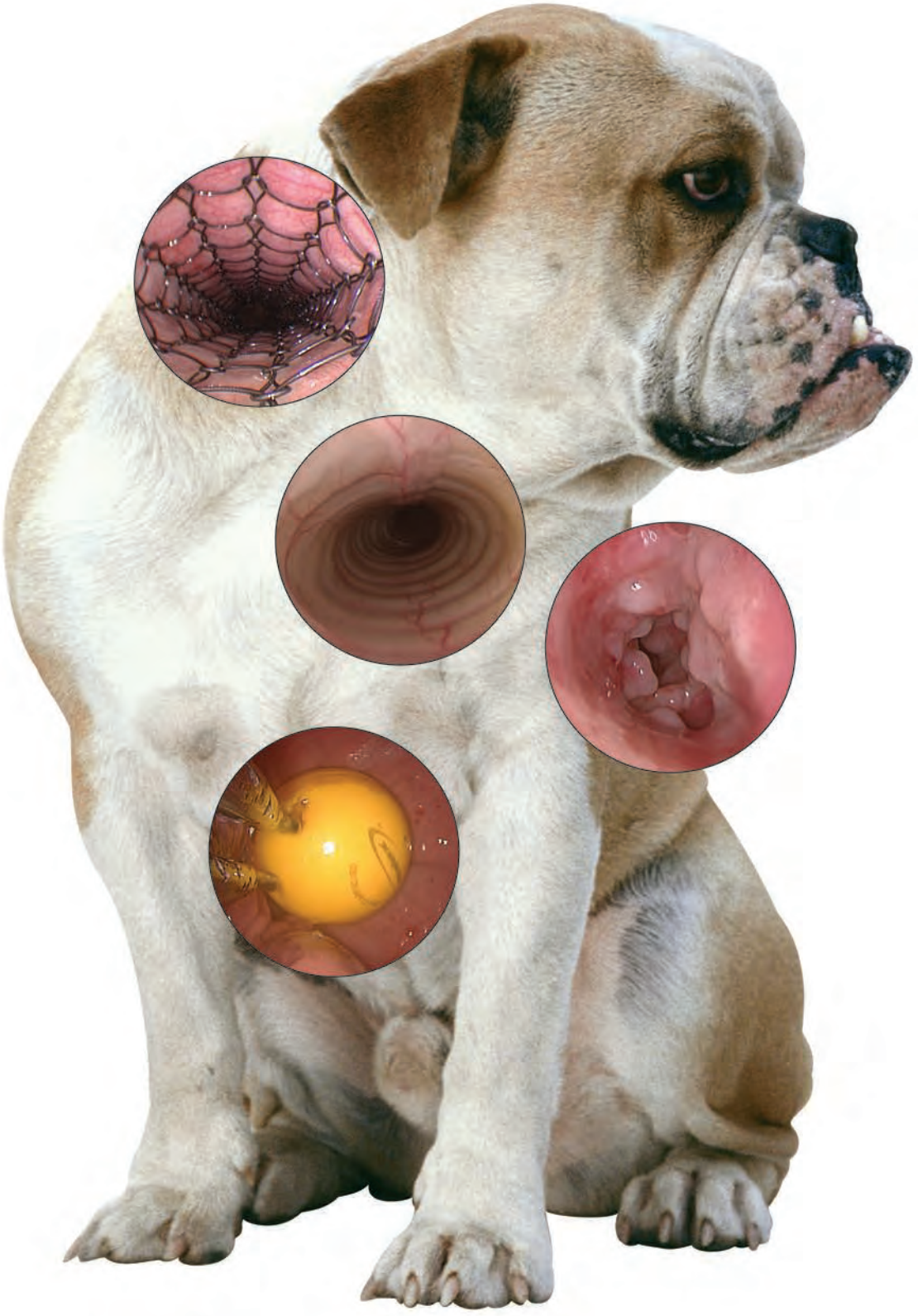
7230 EA **HOPKINS® II Retrograde Telescope 120°,** enlarged view, diameter 4 mm, length 18 cm, **autoclavable,** fiber optic light transmission incorporated, color code: white

650227 **Double Spoon Forceps,** horizontal opening, 110° curved backwards, spoon diameter 4 mm, with cleaning connector, working length 12 cm

NEW 723029 **Biopsy and Grasping Forceps,** vertical opening, malleable, cupped jaws diameter 4 mm, working length 18 cm

10-00₂

BRONCHOSCOPY AND GASTROSCOPY RIGID INSTRUMENT SETS



Endoscopic photos courtesy of Dr. Timothy C. McCarthy

Rigid endoscopes have certain advantages in bronchoscopy over flexible endoscopes. Superior image size, brightness and resolution guarantee high quality photographic and video documentation. A thorough examination of the bronchial tree can be performed using endoscopes with various viewing angles. Samples for cytology, histopathology and micropathology are easily obtained. A variety of instruments for removal of foreign bodies is available.

Indications for Rigid Bronchoscopy

- **Cytology**
- **Retrieval of foreign bodies**
- **Removal of fibrinous casts and mucous plugs**
- **Bronchoalveolar lavage**
- **Diagnosis and staging of tumors**
- **Diagnosis and staging of chronic bronchitis**
- **Documentation**

10-00i

Standard Bronchoscopy
Esophago-Gastroscope

Rigid Instrument Set, diameter 5.5/7 mm, working length 54 cm

KARL STORZ — ENDOSKOPE

61016 K 61016 L 61016 N

Basic set for rigid bronchoscopy in medium-sized and large dogs. Ideal for the retrieval of large and deeply embedded foreign bodies. This set can also be used for esophagoscopy.

12015 AA	**HOPKINS® Straight Forward Telescope 0°,** diameter 5.5 mm, length 53 cm, **autoclavable,** fiber optic light transmission incorporated, color code: green
61015 US	**Protection and Examination Sheath,** for HOPKINS® Telescope 12015 AA, with insufflation stopcock, diameter 7 mm, working length 53 cm (not illustrated)
61016 L	**Optical Biopsy Forceps,** working length 53 cm
61016 N	**Optical Biopsy Forceps,** universal jaws, for the removal of foreign bodies and denatured tissue, working length 53 cm
61016 K	**Optical Forceps,** for soft foreign bodies
15006 B	"ULTRA STOP" **Antifog Solution,** 25 ml, pipette bottle (not illustrated)
61318 B	**Bronchoscope Tube Universal,** with Fiber Optic Light Carrier 61318 L, size 8.5, length 43 cm
61315 M	**Glass Window Plug**
61315 N	**Rubber Telescope Guide**
61338 S	**Instrument Guide,** for suction catheter
61924 D	**Adaptor,** for respirator
61924 E	**Sealing Plug,** for respiration connector

Bronchoscopy may also be performed without the aid of a tracheal tube in the case of difficult anatomical conditions.

While using the bronchoscope tube the examination can be performed under mechanical ventilation. The use of an anti-fogging solution to prevent fogging of the telescope lens is recommended.

10-00₂

Standard Bronchoscopy Set

for use in small animals less than 10 kg,
diameter 2.9/3.4 mm, working length 36 cm

KARL STORZ — ENDOSKOPE

61324 AA	**HOPKINS® Straight Forward Telescope 0°,** diameter 2.9 mm, length 36 cm, **autoclavable,** fiber optic light transmission incorporated, color code: green
61378 H	**Optical Alligator Forceps,** for hard foreign bodies, working length 35 cm, for use with Telescope 61324 AA
61378 L	**Same,** for biopsy
61378 U	**Optical Forceps,** universal, biopsy and grasping, working length 35 cm, for use with Telescope 61324 AA
61378 CF	**Optical Forceps,** for broncho-esophagoscopy, 2 x 2 teeth, for controlled grasping of coins and flat foreign bodies, for use with Telescope 61324 AA
61324 US	**Protection and Examination Sheath,** for HOPKINS® Telescope 61324 AA, with insufflation stopcock, diameter 4 mm, working length 36 cm (not illustrated)
61339 CD	**Bronchoscope Tube,** size 3.5, length 30 cm
61338 M	**Glass Window Plug**
61338 N	**Rubber Telescope Guide,** for telescopes with diameter 2.7 and 2.9 mm and optical forceps
10101 FA	**Prismatic Light Deflector, autoclavable,** with connection to fiber optic light cable
61338 S	**Instrument Guide,** for suction catheter
61924 D	**Adaptor,** for respirator
61924 E	**Sealing Plug,** for respiration connector

61378 CF 61378 H 61378 L 61378 U

The combined use of a HOPKINS® telescope with various optical forceps provide optimal conditions for performing biopsies or for removing foreign bodies, even in the case of very small lumina. The protection and examination sheath may provide an additional oxygen supply.

10-00₂

Accessories for Bronchoscopy

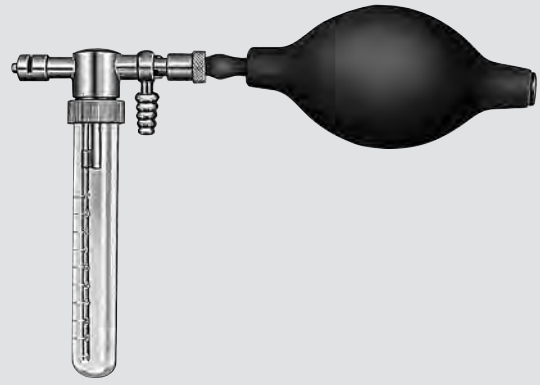
Instruments for Aspiration and Irrigation

10432 ED

10432 EE

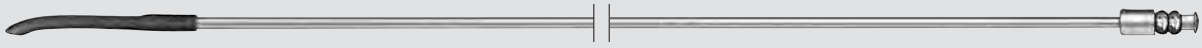
10432 N

10434 V



10434

10432 N	**Aspirator,** for collecting secretions, with cut-off hole, with Spare Glass 10432 E, can be connected to suction tubes or suction catheters
10432 ED	**Collection Device,** plastic, for single use, with lid, package of 100, for use with HUZLY Aspirator and Bronchus Irrigator 10434 and Intermediate Ring 10434 Z
10432 EE	**Shipping Container,** for Collection Device 10432 ED, plastic, for single use, with lid, package of 100
10434	HUZLY **Aspirator and Bronchus Irrigator,** with Graduated Container 10455 A and Rubber Bulb 437000. After switching manifold from “Irrigation” to “Suction”, the injected irrigation fluid is immediately withdrawn again together with the bronchial secretion



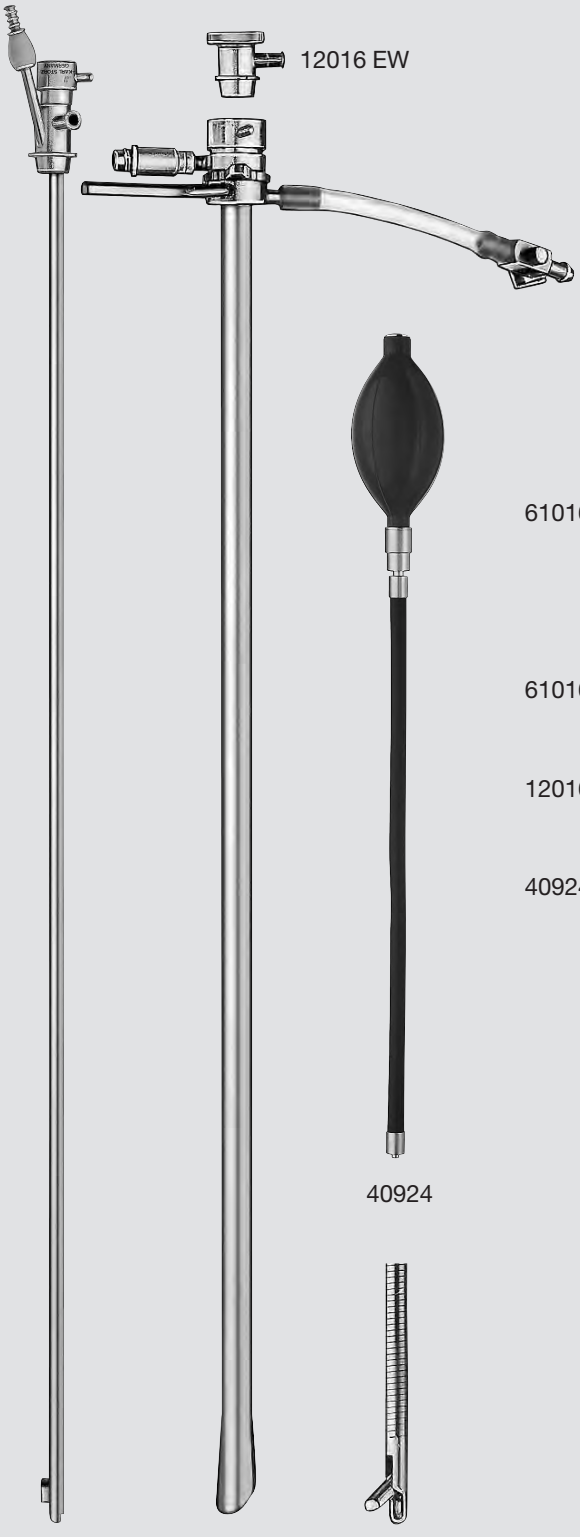
10434 A/B

10434 A	**Suction Tube,** diameter 4 mm, length 50 cm, for use with HUZLY Aspirator and Bronchus Irrigator 10434
10434 B	**Same,** diameter 3 mm, length 35 cm
10434 V	**Adaptor,** for catheters
10434 Z	**Intermediate Ring,** for use with Collection Device 10432 ED with HUZLY Aspirator and Bronchus Irrigator 10434

1-12

Accessories for Esophago-Gastroscopy

For use with Telescope 12015 AA



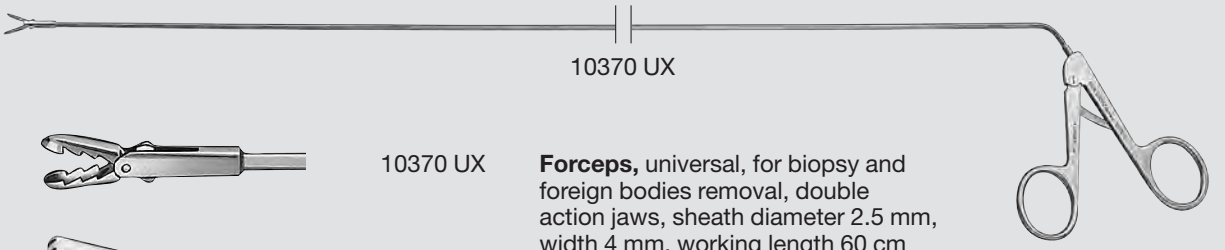
61016 E	**Esophagoscope Tube,** size 11, outer diameter 12 mm, inner diameter 8.6 x 10.3 mm, with suction channel and air inflation device, including Glass Window Plug with LUER-Lock 12016 EW, with Fiber Optic Light Carrier 12016 EM
61016 C	**A. F. (anti-fog) Tube,** with working channel and anti-fog device, for use with Straight Forward Telescope 12015 AA
12016 U	**Forceps,** spoon-shaped, flexible, for biopsy, width of jaws 3.2 mm, working length 61 cm
40924	**Rubber Insufflation Bulb,** with detachable tube, with LUER-Lock including: **Rubber Bulb** **Rubber Tube**

Components/Spare Parts see chapter 14

5-06

Accessories for Gastroscopy and Bronchoscopy

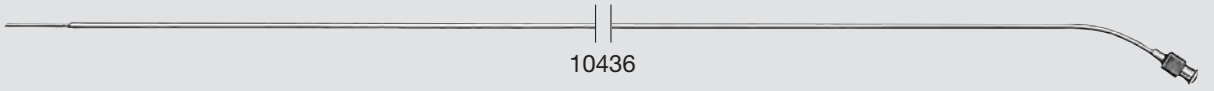
Foreign Body Retrieval Forceps



10370 UX **Forceps,** universal, for biopsy and foreign bodies removal, double action jaws, sheath diameter 2.5 mm, width 4 mm, working length 60 cm

NEW 60370 FB **Foreign Body Forceps,** double action jaws, jaws 30 mm, jaw opening 3 cm, for tracheal, oesophageal and gastric foreign body removal, positioned parallel to an esophago-gastroscope, length 70 cm

Instruments for airway sample collection



10436 **Aspiration Biopsy Needle,** for transbronchial biopsy, distal straight, diameter 1.6 mm, working length 47 cm

10438 **Same,** distally angled

12016 S **Suction Catheter,** 10 Fr., length 60 cm, with Adaptor 10479 D

1-12

FLEXIBLE ENDOSCOPES FOR RESPIRATORY AND URINARY TRACTS

Endoscopic photos courtesy of Dr. Brendan McKiernan, reprinted from Veterinary Endoscopy for the Small Animal Practitioner, Timothy C. McCarthy, © 2005, with permission from Elsevier

Fine diameter flexible endoscopes are ideal for numerous respiratory and urinary tract applications in dogs, cats and small exotic animals. KARL STORZ offers several options in this category that always include unsurpassed optics in a robust design that is easy to handle and includes a durable working channel for flushing or passage of instrumentation and catheters. The integral working channels facilitates the collection of biopsy, fluid and cytology samples. The retrieval of foreign bodies under visual control is also possible.
KARL STORZ offers a complete range of accessories, i.e. catheters for cytology as well as various biopsy and grasping forceps. Since these flexible endoscopes are fully immersible and available in a variety of sizes, the applications are virtually unlimited.

Indications for Flexible Bronchoscopy

- **Cytology**
- **Retrieval of foreign bodies**
- **Bronchoalveolar lavage**
- **Diagnosis and staging of tumors**
- **Diagnosis and staging of chronic bronchitis**
- **Endoscopic placement of tracheal stents**
- **Documentation**

Indications for Urethrocystoscopy

- **Procurement of biopsies**
- **Identification of bleeding source**
- **Diagnosis of ectopic ureter**
- **Diagnosis and staging of tumors**
- **Diagnosis and staging of chronic cystitis**
- **Removal or uroliths**
- **Endoscopic placement of urethral and ureteral stents**
- **Documentation**

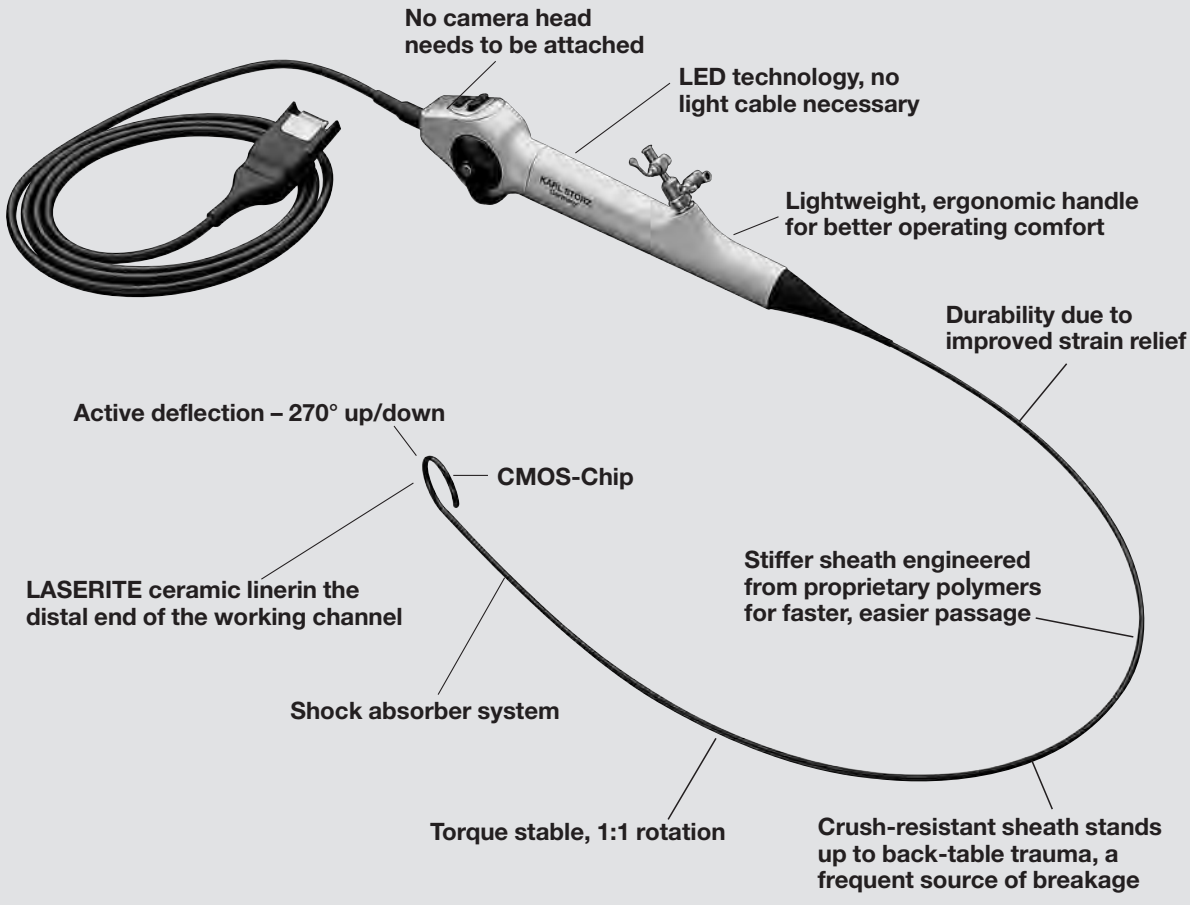
10-001

The KARL STORZ Video-Uretero-Cystoscope

When our vision meets your most challenging requests: KARL STORZ as a pioneer of Endoscopy opens a new door in terms of diagnosis and treatment in narrow anatomies

Special features:

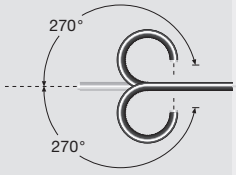
- **CMOS technology for outstanding quality of view**
- **LED technology ensuring homogenous illumination**
- **Ergonomic handle due to the integrated light technology**
- **Extreme thinness and maneuverability**
- **Maximal deflection of 270° up- and downwards**
- **1 to 1 response of the tip by manipulating the handle due to the high torque stability**
- **Protection against thermal effects by LASERITE ceramic liner**



1-12

The KARL STORZ Video-Uretero-Cystoscope

8.5 Fr.

Order No.	Deflection	Direction of view	Field of view	Working length	Working channel inner diameter	Sheath size
NEW 11278 V		0°	90°	70 cm	3.6 Fr.	8.5 Fr.
NEW 11278 VU*		0°	90°	70 cm	3.6 Fr.	8.5 Fr.

*** with contrapositive deflection mechanism**

The flexible Video Uretero-Renoscope 11278 V/11278 VU is fully compatible with the IMAGE 1 HUB™ HD camera control unit (CCU)

Set 11278 VK/VUK

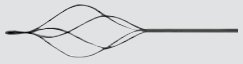
Accessories included:

27677 X	**Case**
13242 XL	**Leakage Tester,** with bulb and manometer
27651 AL	**Cleaning Brush,** flexible, outer diameter 2 mm, for working channel diameter 1.2 – 1.8 mm, length 150 cm
27014 Y	**LUER-Adaptor,** with seal

Additional accessories:

60275 FE **Grasping Forceps,** double-action jaws, 3 Fr., length 120 cm

60275 ZE **Biopsy Forceps,** oval cupped jaws, 3 Fr., length 120 cm



27023 VB **Stone Basket,** sterile, for single use, 2.5 Fr., length 120 cm

NEW 11770 T **Coagulating Electrode,** unipolar, 3 Fr., length 110 cm

NEW 27025 P **Guide Wire,** with ball end, 3 Fr., package of 10

39405 AS **Plastic Container for Flexible Endoscopes,** specially suited for gas and hydrogen peroxide (Sterrad®) sterilization and storage, for use with one flexible endoscope, external dimensions (w x d x h): 550 x 260 x 90 mm

1-12

Note: Compatible with IMAGE 1 HUB™ HD Camera Control Units only
see chapter 12, EXCERPT FROM TELEPRESENCE

The KARL STORZ Video Bronchoscope

The Compact Solution

KARL STORZ — ENDOSKOPE

KARL STORZ is expanding its line of flexible bronchoscopes with the new video bronchoscope with distal chip. Users who do not want to miss out on the high image quality of videoscopes any longer, can now take advantage of the quality products of KARL STORZ in this field too.

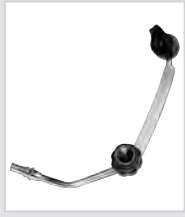
Whereas in the past comparatively large and heavy endoscopy towers were used in video endoscopy, the TELE PACK VET X control unit now provides a compact and, at the same time, multifunctional documentation unit. With its Hi-Lux high-performance light source and the high-resolution 15" flat screen monitor, the system provides an image with excellent color fidelity. Via the integrated recording button on the handle of the video bronchoscope, stills and videos can be stored on USB drive or SD card.

In combination with the TELE PACK VET X control unit, the new video bronchoscope offers outstanding image sharpness, as well as excellent brightness and representation of detail.

Other features of the video bronchoscope are:

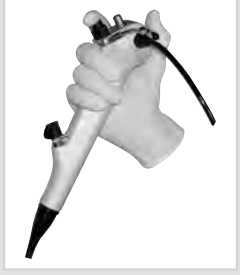
- Comfortable handling due to ergonomic design and light weight
- Removable suction unit
- Overview due to full screen display
- Working length of 61 cm
- Full automatic brightness control at maximum and minimum range

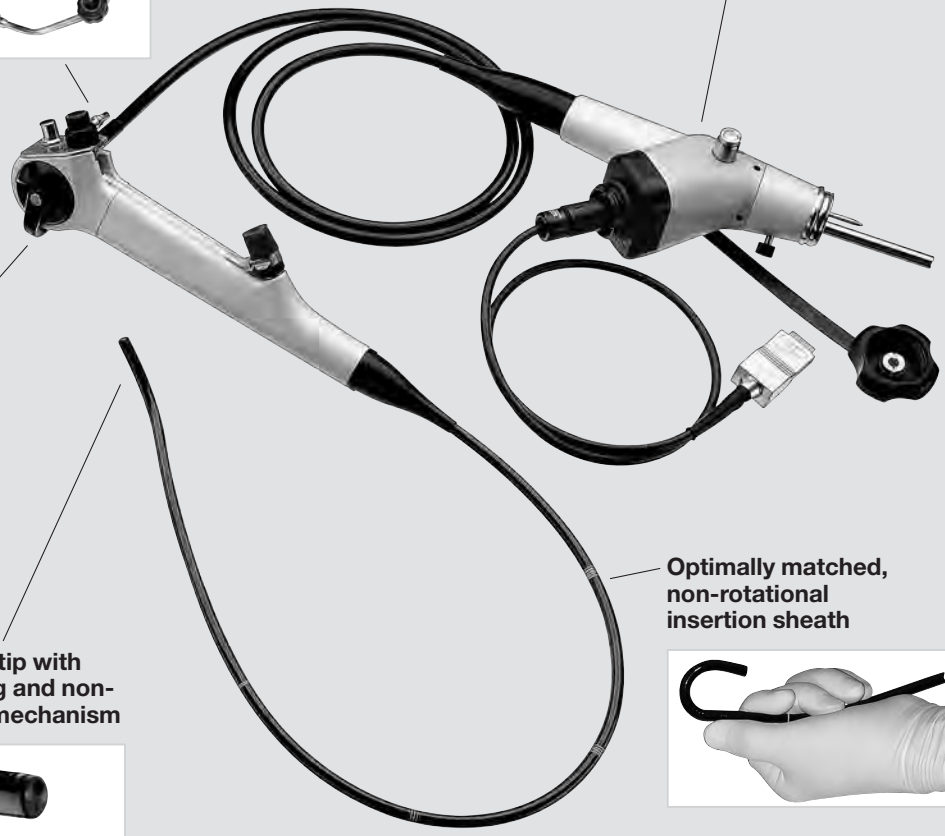
Very good hygiene due to removable suction unit



Ergonomic video connector with sealing cap ensures comfortable handling for the personnel

Sensitive and stable control via ergonomic handle





Optimally matched, non-rotational insertion sheath

Short insertion tip with smooth-running and non-twisting angle mechanism

5-06

The KARL STORZ Video Bronchoscope

The Compact Solution

11900 BP	**Video Bronchoscope,** color system **PAL,** including mounted Suction Unit 11900 AE, for use with TELECAM SL II SCB **20** 2130 11, Veterinary Video Camera III **69** 2360 11 and TELE PACK VET X **69** 0450 01	
	Working channel:	2.3 mm
	Direction of view:	0°
	Angle of view:	120°
	Deflection:	up 180°, down 100°
	Depth of view:	3 – 50 mm
	Working length:	61 cm
	Outer diameter:	6.2 mm
11900 BN	**Same, NTSC**	

Following accessories are included (for color systems PAL and NTSC):

27677 KV	**Case**
11001 KL	**Biopsy Forceps,** flexible, spoon-shaped, round, double action jaws, diameter 1.8 mm, working length 120 cm
20 2130 70	**Video Connecting Cable,** for use with TELE CAM, Veterinary Video Camera and TELE PACK VET X camera control units
11025 XE	**Pressure Compensation Cap,** for ventilation during gas sterilization
13242 LX	**Leakage Tester,** with bulb and manometer
27651 B	**Cleaning Brush,** flexible, length 100 cm
13272	**Mouth Piece**
13991 SS	**Irrigation Tube**
27656 B	**Instrument Oil,** 50 ml, silicone-free
13990 SF	**Protective Film**

Please note: To connect KARL STORZ video bronchoscopes with IMAGE1 camera control unit, IMAGE1 Video Connecting Cable **22** 2000 77 is required.

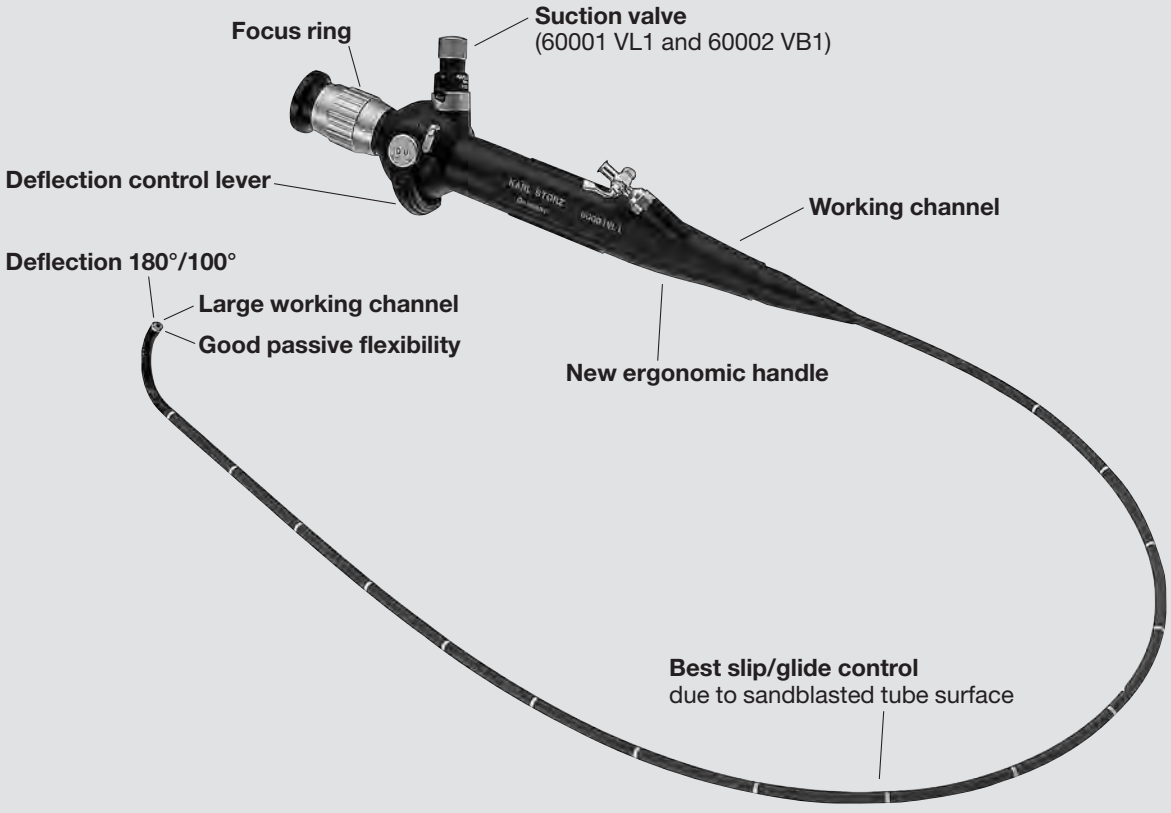
Further suitable instruments with a diameter ≤ 1.8 can be found on page 28.

Camera control unit see chapter 12, EXCERPT FROM TELEPRESENCE

5-06

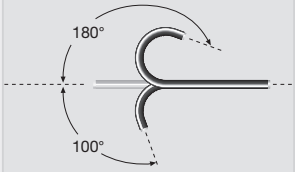
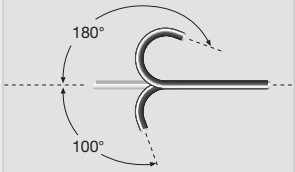
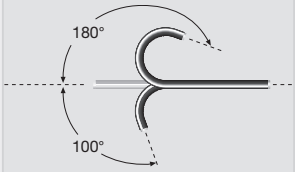
Special features:

- **Veterinary-specific dimensions include extended length and reduced diameter facilitating use in a wide variety of patient sizes**
- **Large viewing angle and moveable distal tip facilitates orientation**
- **Working channel for the use of operating instruments, suction, insufflation or irrigation**
- **Waterproof, fully immersible for cleaning and disinfection**
- **Simple leakage test prevents costly repairs**
- **Sterilizable with EtO and FO gas, STERIS® and STERRAD®**
- **Exceptional optical quality of both lens and fiber optic image transmission bundle**
- **Resistant construction and robust mechanical components ensure long life of the instrument**

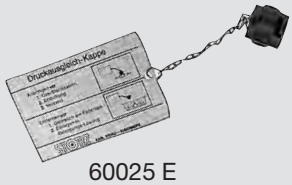


5-06

Fiberscopes

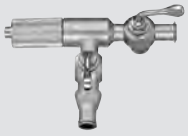
Broncho-Fiberscopes	Order No.	Distal Tip	Deflection	Direction of view	Field of view
For routine bronchoscopy and postrhinoscopy of medium-sized and large dogs					
5.2 x 85	60001 VL1			0°	110°
For routine bronchoscopy and postrhinoscopy of cats and small animal less than 10 kg					
3.7 x 54	60002 VB1			0°	90°
For deep lung examination and urethrocystoscopy in male dogs					
3.0 x 100	60003 VB1			0°	90°

Accessories included:



60025 E

13242 XL


6927691

11301 CA

11301 CB

11301 CD

60025 E	**Pressure Compensation Cap,** for ventilation during gas sterilization
13242 XL	**Leakage Tester,** with bulb and manometer
6927691	**Adaptor for Two-Way Stopcock,** LUER-Lock, with O_2 tube connection (60001 VL1 and 60002 VB1 only)
11301 CA	**Leaflet Valve,** for single use, package of 20 (60001 VL1 and 60002 VB1 only)
11301 CB	**Suction Valve,** reusable (60001 VL1 and 60002 VB1 only)
11301 CD	**Irrigation Adaptor,** for machine cleaning, for fiberscopes (60001 VL1 and 60002 VB1 only)

5-06

	Working Length	Total Length	Working Channel Inner Diameter	Distal End Outer Diameter	Accessories included:			
					Case	Pressure Compen-sation Cap	Leakage Tester	Cleaning Brush
	85 cm	113 cm	2.3 mm	5.2 mm	27677 A	60025 E	13242 XL	60651 BL
	54 cm	82 cm	1.5 mm	3.7 mm	27677 A	60025 E	13242 XL	60651 AL
	100 cm	128 cm	1.2 mm	3 mm	27677 A	60025 E	13242 XL	60651 AL

Instrument-specific accessories, see table:

60651 AL/BL

60651 AL **Cleaning Brush,** flexible, for working channels of Fiberscope 60003 VB1 and 60002 VB1, length 150 cm

60651 BL **Cleaning Brush,** flexible, for working channel of for Broncho-Fiberscope 60001 VL1, length 120 cm

Optional accessory:

11020 D

11020 D **Ventilation Attachment,** attaches to endotracheal tube, allowing continuous administration of oxygen and anesthetic gas during tracheobronchoscopy

5-06

Additional accessories and instruments for fiberscopes see page 28
Fiber optic light cable for use with fiberscopes and Cold Light Fountains
see chapter 12, EXCERPT FROM TELEPRESENCE

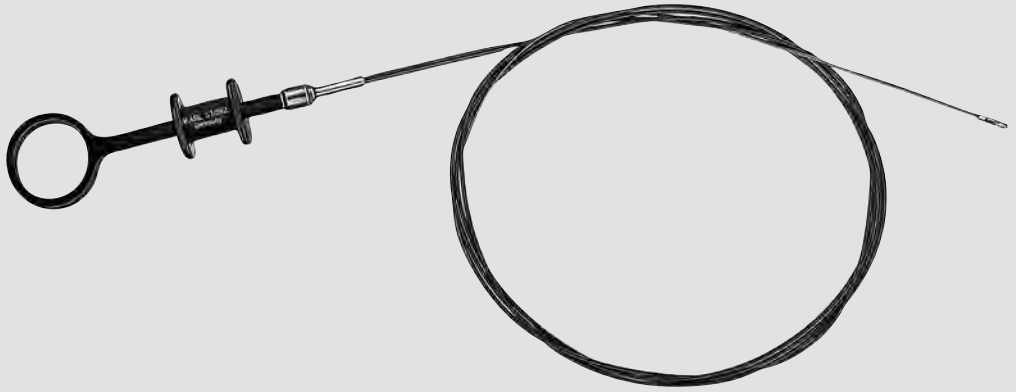
All fiberscopes and accessories are delivered in a sturdy case for storage and transportation.

Accessories for Fiberscopes and Fine Diameter Video Endoscopes

Biopsy Forceps, Grasping Forceps, Stone Baskets

KARL STORZ — ENDOSKOPE

Accessories for fiberscopes with a working channel of at least 1.2 mm



	NEW 60003 MA	**Biopsy Forceps,** oval, flexible, double action jaws, diameter 1 mm, length 110 cm
	NEW 60003 MB	**Grasping Forceps,** flexible, double action jaws, diameter 1 mm, length 110 cm
	NEW 27023 Y	**Brush for Cytology,** unsterile, for single use, 3 Fr., package of 5, length 100 cm, (not for use with endoscopes longer than 85 cm)
	27023 VU	**Stone Basket,** sterile, for single use, 3 Fr., length 115 cm
	NEW 11770 T	**Coagulating Electrode,** unipolar, 3 Fr., length 110 cm

Accessories for fiberscopes and video endoscopes with working channel of at least 2 mm

	60001 KL	**Biopsy Forceps,** oval cupped jaws, diameter 1.7 mm, length 120 cm
	60002 KS	**Grasping Forceps,** double-action jaws, diameter 1.7 mm, length 120 cm
	NEW 60002 KX	**Grasping Forceps,** 2 x 3 teeth, flexible, diameter 1.7 mm, working length 120 cm
	11008	**Suction Catheter,** 5 Fr., length 100 cm, with Adaptor 10479 F
	60007 BL	**Cytology Brush,** diameter 1.8 mm, length 100 cm including: **Outer Tube** **Handle**

Components/Spare Parts see chapter 14

5-06

VIDEO GASTROSCOPES

Endoscopic photos courtesy of Dr. Todd Tams, Veterinary Centers of America

Video Endoscopes

KARL STORZ's new video endoscope range sets new standards for image quality. In digital processing technology, high resolution CCD chips and an enhanced optical system results in endoscopes that produce images with unique clarity. The images are distinguished by extreme brightness, resolution, size and depth of field. By incorporating two diametrically opposed light bundles and intelligent digital processor control, evenly illuminated images are provided, even under difficult lighting conditions.

Special features:

- **One camera control unit for use with video endoscopes, fiberscopes and rigid telescopes**
- **High resolution, true colour video images**
- **Large depth of field**
- **Evenly illuminated, bright images – even under difficult lighting conditions**
- **120 – 140° wide angle telescopes with high light transmitting capacity**
- **New, sensitive control unit**
- **Optimal location of controls**
- **Anti-rotational insertion sheath**
- **Non-twisting supply tube with standard connection**

Camera Control Unit 69 2360 11 see chapter 12, EXCERPT FROM TELEPRESENCE

1-12

Video Endoscopes

Flexible Video Gastroscopes and Bronchoscopes	Order No.		Sheath Diameter	Working Channel Diameter	Working Length	
	PAL	NTSC				
*** 9.7 mm x 140 cm**	60914 PKS	60914 NKS	9.7 mm	2.8 mm	140 cm	
NEW *** 7.9 mm x 140 cm**	60714 PKS	60714 NKS	7.9 mm	2.8 mm	140 cm	
NEW *** 5.9 mm x 110 cm**	60511 PKS	60511 NKS	5.9 mm	2 mm	110 cm	

***** These video gastroscopes are also available with a working length of 110 cm.

Accessories included:

13991 SS

13991 YS

11025 XE

13242 LX

13991 DA

13991 SRV

13991 RV

13991 SAV

13991 LV

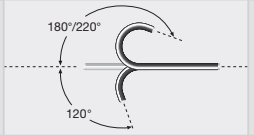
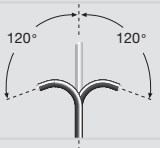
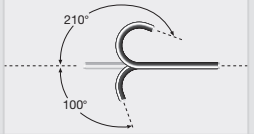
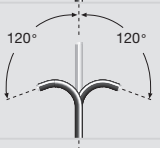
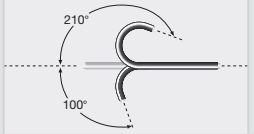
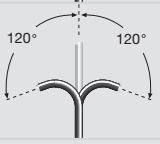
60991 SSV

13991 SV/SSV

13991 SS	**Irrigation Tube**
13991 YS	**Y-Irrigation Tube**
11025 XE	**Pressure Compensation Cap,** for ventilation during gas sterilization
13242 LX	**Leakage Tester**
13991 DA	**Rubber Leaflet Valve,** for working channel, package of 10
13991 RV	**Cleaning Valve,** only included with 60914 PKS/NKS
13991 SRV	**Cleaning Valve,** only include with 60714 PKS/NKS and 60511 PKS/NKS
13991 LV	**Suction Valve,** only included with 60914 PKS/NKS
13991 SAV	**Suction Valve,** only included with 60714 PKS/NKS and 60511 PKS/NKS
13991 SV	**Air/Water Valve,** only included with 60914 PKS/NKS
13991 SSV	**Air/Water Valve,** only included with 60511 PKS/NKS
60991 SSV	**Air/Water Valve,** only included with 60714 PKS/NKS
27677 KV	**Case**
13990 SF	**Protective Film**

5-06

Accessories for flexible endoscopes see page 35-45
Camera Control Units see chapter 12, EXCERPT FROM TELEPRESENCE
To connect KARL STORZ video endoscopes with IMAGE1 camera control unit, IMAGE1 Video Connecting Cable **22** 2000 77 is required.

	Deflection up/down	Deflection left/right	Field of Vision	Depth of Field	Accessories including Cleaning Brush included
			140°	2 – 200 mm	27651 H
			120°	2 – 200 mm	27651 H
			120°	2 – 200 mm	27651 F

Accessories included:

20 2130 70

27656 B

13992 BS

20 1000 31

27656 B **Instrument Oil,** 50 ml, silicone-free

20 2130 70 **Video Connecting Cable,** for use with TELECAM SL II, Veterinary Video Camera III and TELE PACK VET X Camera Control Units

13992 BS **Water Bottle,** 250 ml

20 1000 31 **Bottle Holder**

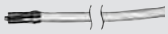
Instrument-specific accessories, see table:

27651 H

27651 H **Cleaning brush,** bristle diameter 5 mm, length 230 cm

27651 F **Cleaning brush,** bristle diameter 2.5 mm, length 180 cm

Accessories not included:



610 VE

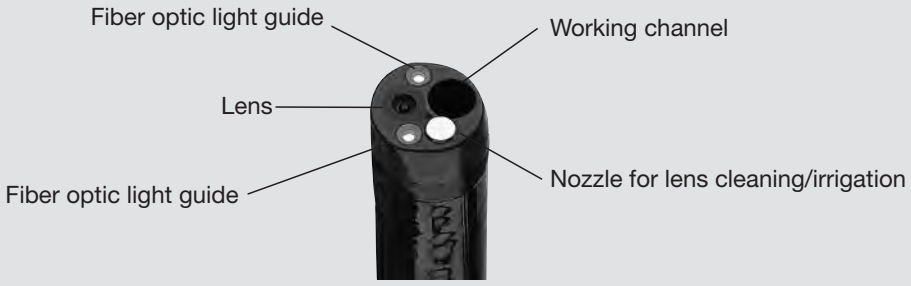
610 VE **Silicone Tubing Set,** for insufflation when using an external airpump, in combination with Adaptor 487 VE or 69487 KVE

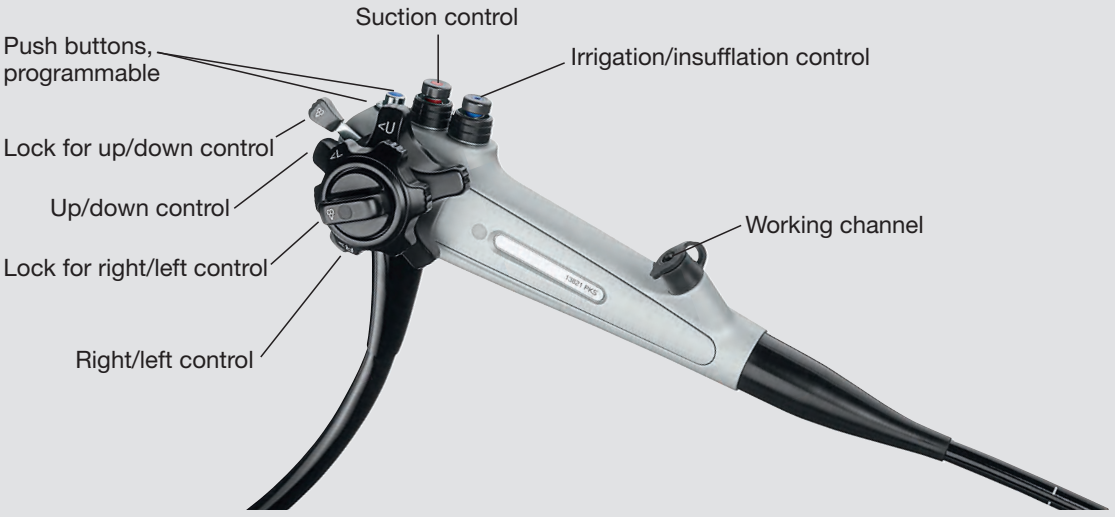
60991 LA

60991 LA **Videoendoscope LUER-Adapter,** irrigation adapter to connect to the working channel of KARL STORZ videoendoscopes

5-06

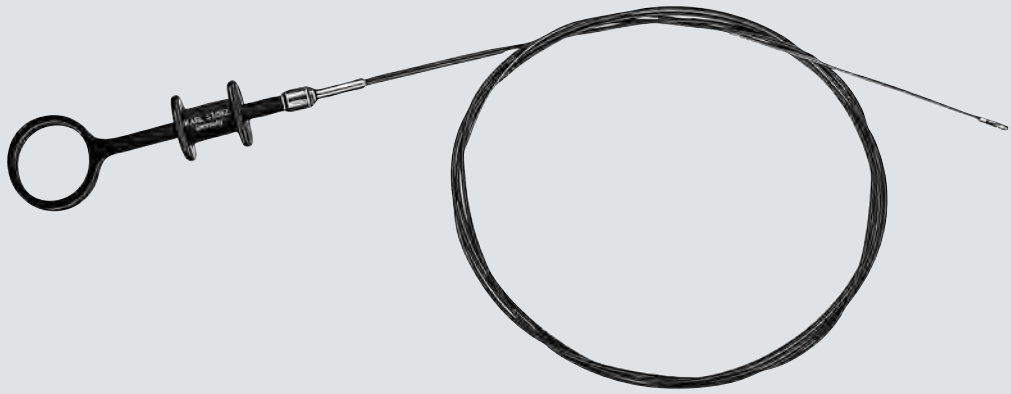
Specifications:
Field of View: 120°/140°
Depth of View: 2 – 200 mm
Resolution: 480,000 pixels
2 push-button controls – programmable





5-06

Accessories see pages 35-45



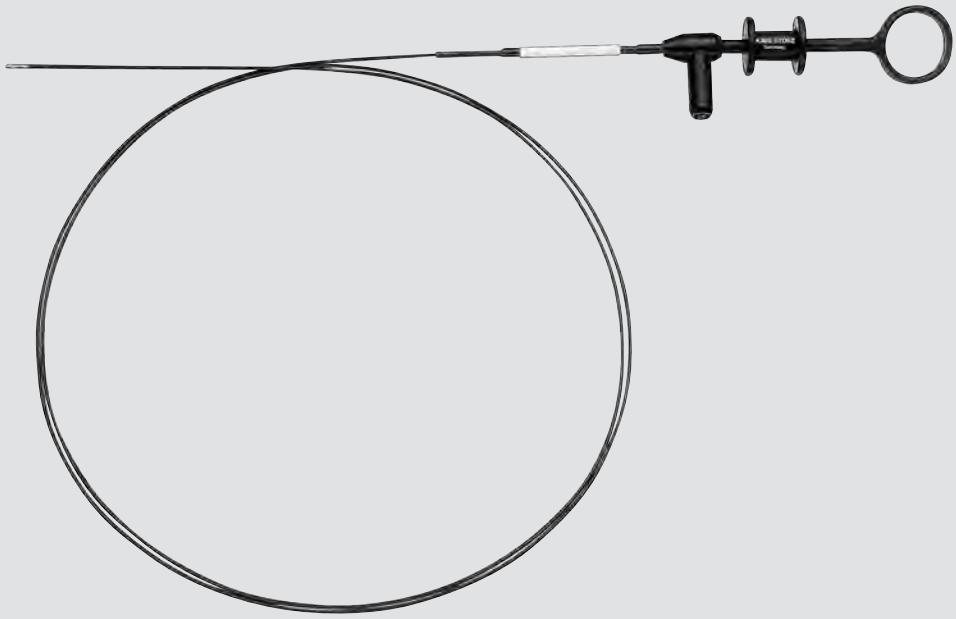
Working length	round cupped jaws	round cupped jaws, with spike, fenestrated	oval cupped jaws, fenestrated	oval cupped jaws, with spike, fenestrated	oval cupped jaws, serrated
Diameter 1.7 mm – for use with working channel of at least size 2 mm					
200 cm	60001 LL	60001 LM	60001 LN	60001 LP	–
NEW 160 cm	11001 ML	11001 MM	11001 MN	11001 MP	–
Diameter 1.8 mm – for use with working channel of at least size 2.2 mm					
180 cm	–	–	–	–	60180 LT
Diameter 2.2 mm – for use with working channel of at least size 2.8 mm					
200 cm	60250 LL	60250 LM	60250 LN	60250 LP	60250 LT

NEW 110285-10* **Biopsy Forceps,** for single use, sterile, with oval jaws, coated, working length 160 cm, package of 10, for use with working channels as of diameter 2 mm

* mtp medical technical promotion gmbh,
Take-Off GewerbePark 46, D-78579 Neuhausen ob Eck, Germany

Accessories for Flexible Endoscopes

Biopsy Forceps, insulated



Working Length	round cupped jaws

Diameter 1.7 mm

200 cm	60751 LL	–
NEW 160 cm	13751 M	–

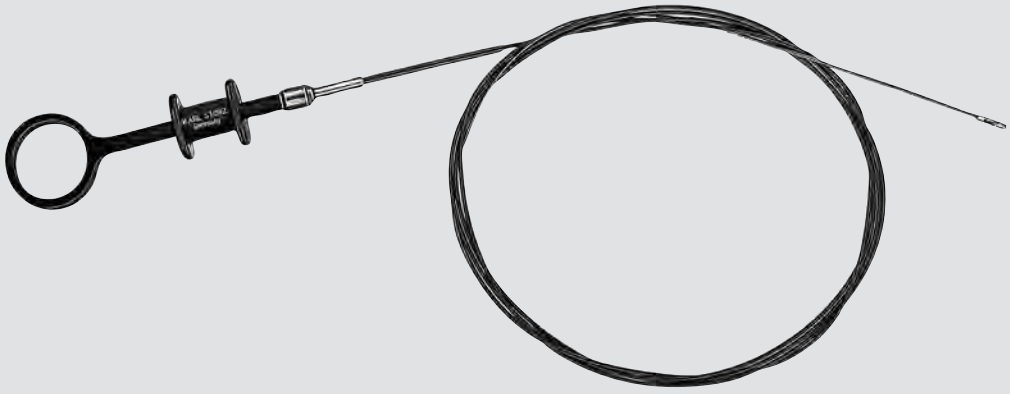
Diameter 2.2 mm

200 cm	–	60751 LN

5-06

Accessories for Flexible Endoscopes

Grasping Forceps, reusable



Working Length	alligator jaws	alligator jaws, round	universal, round cupped jaws, serrated	alligator jaws, serrated, with 2 x 3/3 x 4 teeth	serrated, with 1 x 2 teeth

Diameter 1.8 mm – for use with working channel at least size 2 mm

200 cm	60002 LS	60002 LT	60002 LU	60002 LX	60002 LZ
NEW 160 cm	–	11002 MT	11002 MU	11002 MX	11002 MZ

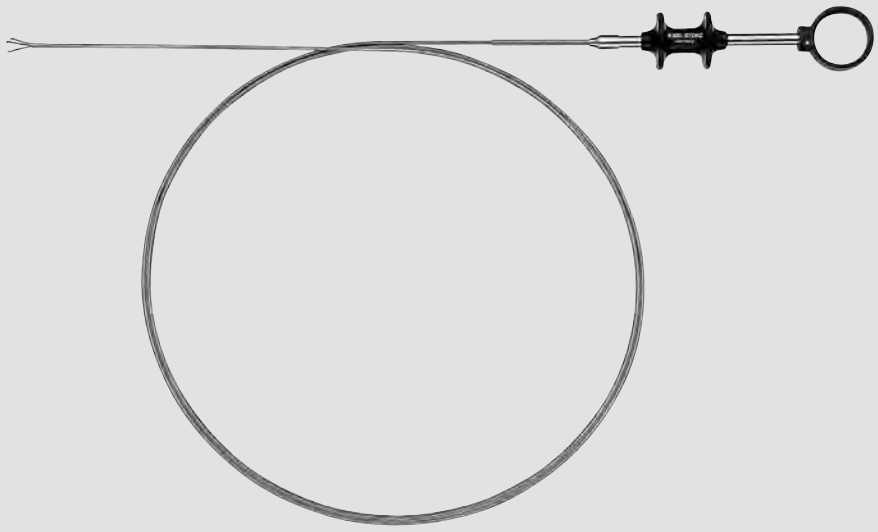
Diameter 2.3 mm – for use with working channel at least size 2.8 mm

200 cm	60252 LS	60252 LT	60252 LU	60252 LX	60252 LZ

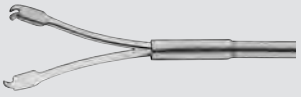
5-06i

Accessories for Flexible Endoscopes

Grasping Forceps, Foreign Body Baskets



Diameter 1.8 mm – for use with working channel of at least size 2.2 mm

Working length	Grasping Forceps, flexible, with 2 spring-action jaws, 1 x 2 teeth, sharp
	
180 cm	60185 LA

Diameter 2.4 and 1.8 mm

Working length	Foreign Body Basket

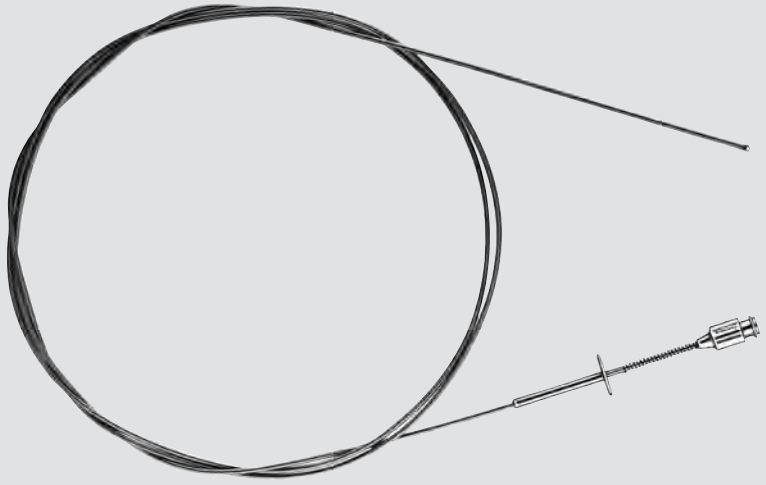
Diameter 2.4 mm (with 6 wires), large opening: 14 x 10 cm

200 cm	60278 FK

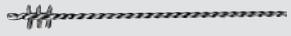
Diameter 1.8 mm (with 4 wires)

200 cm	60185 FK

5-06



Diameter 2.2 mm – for use with working channel of at least size 2.8 mm

Working length	Cytology Brush, complete	Outer Tubes, only, package of 10	Brushes, only, package of 10
			
200 cm	60266 L	60266 SL	60266 LE

10479 C

10479 C **Adaptor,** for outer tubes

13266 H

13266 H **Handle,** for brushes

Diameter 2.2 mm – for use with working channel of at least size 2.8 mm, for single use, package of 10

Working length	Cytology Brushes, complete
180 cm	110240-10*
NEW 230 cm	110241-10*

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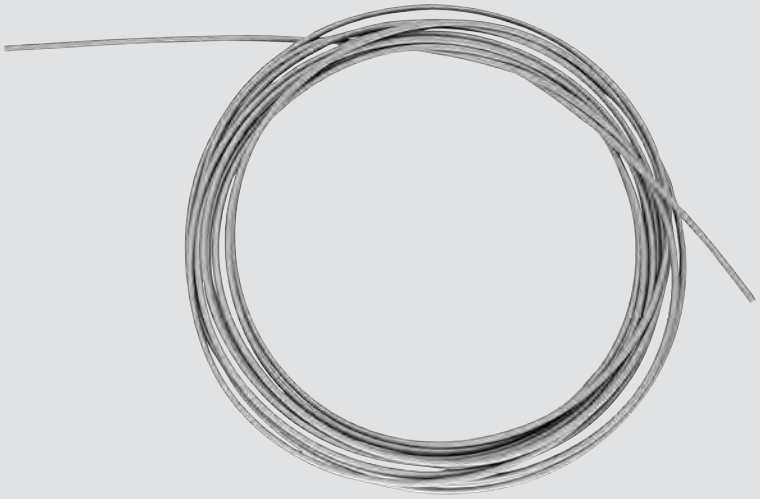
* mtp medical technical promotion gmbh,
Take-Off GewerbePark 46, D-78579 Neuhausen ob Eck, Germany

Accessories for Flexible Endoscopes

Suction catheters for broncho-alveolar lavage (BAL), reusable, autoclavable, Injection Needle



Diameter 2.3 and 1.8 mm – for use with working channel of at least size 2.8 mm

Working length	Catheter for Aspiration Biopsy

Diameter 2.3 mm – for use with working channel of at least size 2.8 mm

500 cm	60469 C

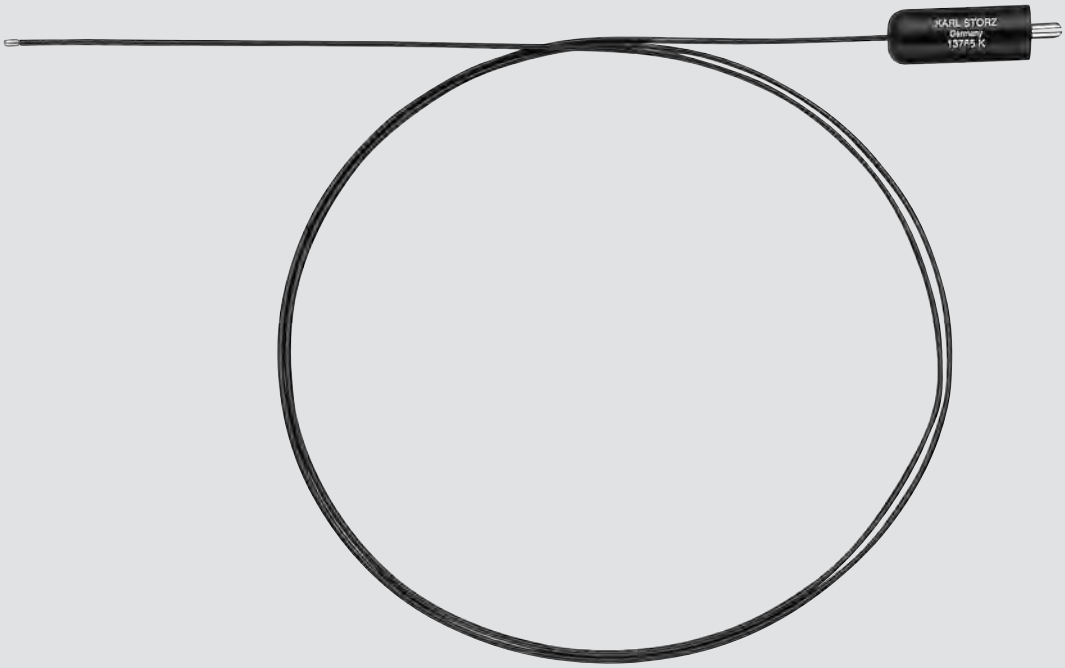
Diameter 1.8 mm – for use with working channel of at least size 2 mm

180 cm	60725 TM

Diameter 2.2 mm – for use with working channel of at least size 2.8 mm

Working length	Injection Needle
200 cm	60260 L

1-12



KARL STORZ HF Connector, 4 mm, instrument side

**Diameter 1.8 mm,
for use with working channel
of at least size 2 mm**

Working length	unipolar
200 cm	60765 L

**Diameter 2.2 mm,
for use with working channel
of at least size 2.8 mm**

Working length	bipolar
200 cm	60267 LB

High Frequency Surgery Units, see chapter 11, UNITS

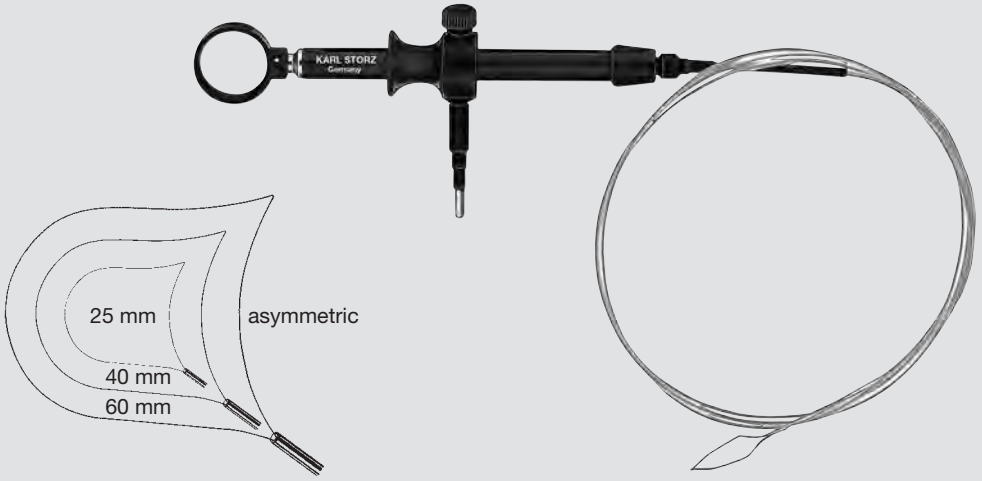
5-06

Accessories for Flexible Endoscopes

Polypectomy Snares, insulated, reusable,
for use with High Frequency Surgery Units

Special features:

- **Easy-to-use mechanism**
- **Forms snare automatically**
- **Multifilament cutting wire**
- **Asymmetric opening**



Diameter 2.4 mm – for use with working channels of at least size 2.8 mm
KARL STORZ HF connector, 4 mm, instrument side

Working length	Complete Instrument	Spare Snares, reusable	Spare Tubes
	Polypectomy Snare, complete, with Handle 60773 H, snare size 25 mm		
200 cm	60773 LD	60273 TD	60273 TW
	Polypectomy Snare, complete, with Handle 60774 H, snare size 40 mm		
200 cm	60773 LE	60273 TE	13273 TX
	Polypectomy Snare, complete, with Handle 60774 H, snare size 60 mm		
200 cm	60773 LF	60273 TF	13273 TX

60774 H

60774 H **Handle,** only, reusable

60773 H

60773 H **Handle,** only, reusable

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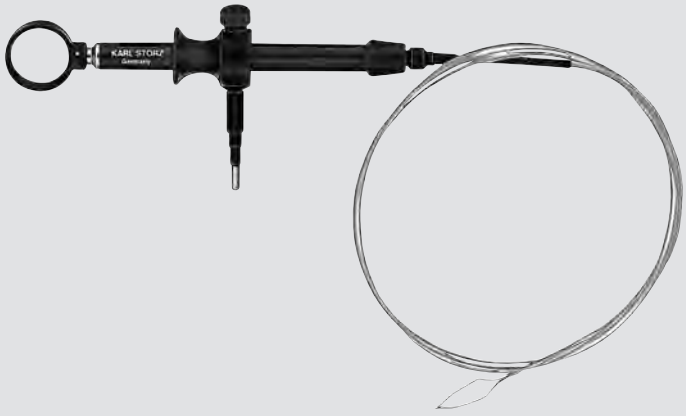
High Frequency Surgery Units, see chapter 11, UNITS

Accessories for Flexible Endoscopes

Polypectomy Snares, insulated, reusable,
for use with High Frequency Surgery Units

Special features:
- **Easy-to-use mechanism**
- **Multifilament cutting wire**



Oval Diathermy Loops
Diameter 1.8 mm – for use with working channels of at least size 2 mm
KARL STORZ HF Connector, 4 mm, instrument side

Working length	oval	Spare Tubes
	Polypectomy Snare, complete, with Handle 60773 H	
180 cm	60725 LA	
	Spare Snares, reusable	
180 cm	60725 TA	60725 TM

60773 H

60773 H **Handle,** only, reusable

High Frequency Surgery Units, see chapter 11, UNITS

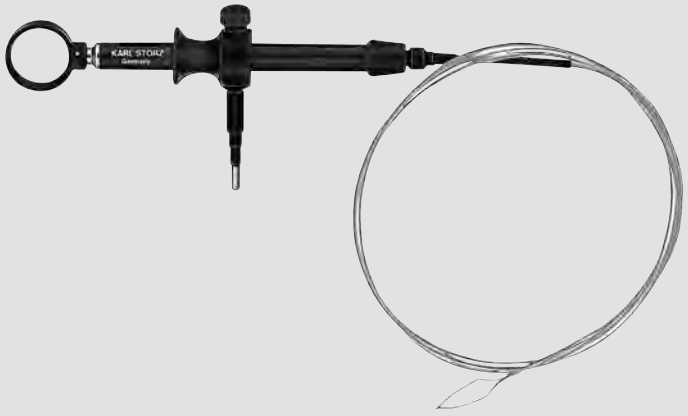
5-06

Accessories for Flexible Endoscopes

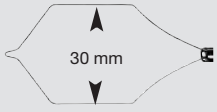
Polypectomy Snares, insulated, reusable,
for use with High Frequency Surgery Units

Special features:

- **Easy-to-use mechanism**
- **Multifilament cutting wire**



Oval Diathermy Loops
Diameter 2.4 mm – for use with working channels of at least size 2.8 mm
KARL STORZ HF Connector, 4 mm, instrument side

Working length	oval	oval	 hexagonal	**Spare Tubes**
	Polypectomy Snares, complete, with Handle 60773 H			
200 cm	60773 LA	60773 LB	60773 LC	
	Spare Snares			
200 cm	60273 TA	60273 TB	60273 TC	60273 TT

60773 H

60773 H **Handle,** only, reusable

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High Frequency Surgery Units, see chapter 11, UNITS

Accessories

High Frequency Cords,
for use with unipolar and bipolar instruments

KARL STORZ — ENDOSKOPE

Unipolar High Frequency Cords

unipolar

KARL STORZ Instrument	High Frequency Surgery Units		
		26002 M	**Unipolar High Frequency Cord,** with 4 mm plug for models KARL STORZ, Erbe type T, older models and Ellman, length 300 cm
		26004 M	**Unipolar High Frequency Cord,** with 4 mm plug for models Berchtold and Martin, length 300 cm
		26005 M	**Unipolar High Frequency Cord,** with 5 mm plug for AUTOCON® II 400 SCB system (111, 115, 122, 125), AUTOCON® II 200, AUTOCON® II 80, KARL STORZ AUTOCON® system (50, 200, 350) and Erbe type ICC, length 300 cm
		26006 M	**Unipolar High Frequency Cord,** with 8 mm plug for models KARL STORZ AUTOCON® II 400 SCB system (112, 116) and Valleylab, length 300 cm

Bipolar High Frequency Cords

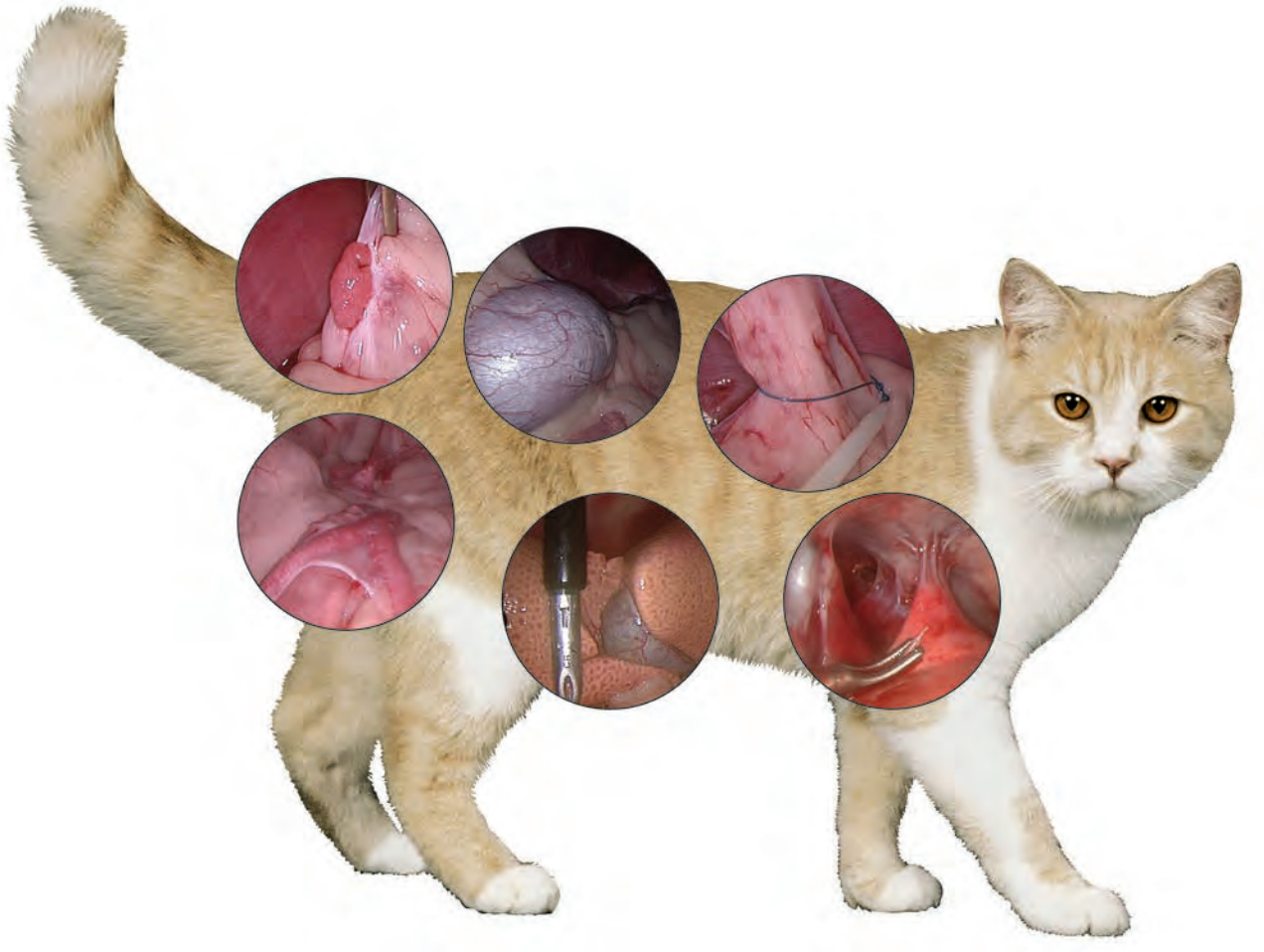
bipolar

KARL STORZ Instrument	High Frequency Surgery Units		
		26176 LE	**Bipolar High Frequency Cord,** for AUTOCON® II 400 SCB system (111, 113, 115, 122, 125), AUTOCON® II 200, AUTOCON® II 80, KARL STORZ Coagulator 26021 B/C/D, 860021 B/C/D, 27810 B/C/D, 28810 B/C/D, AUTOCON® system (50, 200, 350), Erbe-Coagulator, T and ICC series, length 300 cm
		26176 L	**Bipolar High Frequency Cord,** with 2x 4 mm banana plug for KARL STORZ Coagulator 26020 XA/XB and Ellman, length 300 cm
		26176 LA	**Bipolar High Frequency Cord,** with 2x 4 mm banana plug for KARL STORZ Coagulator 26020 XA/XB and Valleylab, length 300 cm
		26176 LM	**Bipolar High Frequency Cord,** for Martin and Berchtold coagulators, length 300 cm
		26176 LV	**Bipolar High Frequency Cord,** for KARL STORZ AUTOCON® II 400 SCB system (112, 114, 116, 122, 125) and Valleylab coagulators, length 300 cm

Please note:
All high frequency cords on this page are delivered with a length of 300 cm. If a length of 500 cm is required, please add the letter **L,** i.e. 26002 M**L**, 26176 LV**L** to the order number.

5-06

LAPAROSCOPES AND ACCESSORIES



Endoscopic photos courtesy of Dr. Timothy C. McCarthy

New laparoscopic techniques provide new alternatives in veterinary medicine. KARL STORZ offers telescopes and instrument sets for these techniques which allow diagnostic interventions and biopsies as well as minimally invasive operations such as laparoscopic ovariectomies of the female dog.

User-friendly CO_2 insufflators ensure optimal working conditions. The operative procedure can be displayed on a monitor by means of a video camera attached to the endoscope. Compared to conventional open surgery, laparoscopic techniques allow a less traumatic surgical intervention in most cases and a more extensive view of the entire abdomen.

Indications for Laparoscopy and Thoracoscopy:

- **Diagnostic laparoscopy**
- **Cryptorchidectomy**
- **Prophylactic gastropexy**
- **Ovariectomy/ovariohysterectomy**
- **Jejunostomy/gastrostomy tube placement**
- **Adrenalectomy**
- **Pericardectomy**
- **Partial lobectomy of the lung**
- **Nephrectomy**
- **Insulinoma removal**
- **Partial pancreatectomy**
- **Correction of gastric dilatation with volvulus**
- **Laparoscopic assisted cystotomy**
- **Laparoscopic assisted cystopexy**

10-94₂

ENDOCAMELEON® NEW

Telescope with variable direction of view

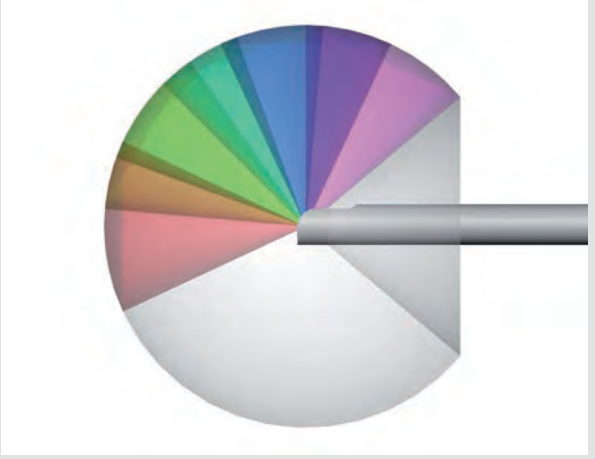
Until now, surgeons had to choose in advance which telescope or direction of view to use in a procedure. Moreover, surgeons were restricted to the selected direction of view throughout the surgery or had to make an intraoperative telescope change.

To prevent this predicament in the future, we developed the ENDOCAMELEON®: a telescope that allows you to adjust the desired direction of view – also during surgery – between 0° and 120°.

The ENDOCAMELEON® combines the user comfort of the proven 0° HOPKINS® telescope with the advantages and potential of a telescope featuring a variable direction of view – offering you the quality you expect from KARL STORZ telescopes.

The innovative ENDOCAMELEON® technology is not difficult to use and, due to the external moving parts, does not take up extra intracorporal space. Handling remains straightforward and ergonomic. Image alignment is the same as rigid telescopes: the direction of view is selected by simply turning the adjustment knob, making the system very intuitive to use. As the ENDOCAMELEON® is equipped with a standard eyepiece, the variable direction of view benefits all standard camera systems. Thanks to the HOPKINS® rod lens system, ENDOCAMELEON® also offers image quality that enables a useful application of three-chip cameras or HD camera systems.

To have the direction of view best suited for each situation available at all times offers the surgeon a higher degree of safety. With the ENDOCAMELEON®, visual inspection of the entire surgical field is easily achieved. Instrument movement can be controlled throughout the entire procedure and hemorrhages in previously inaccessible areas can be detected and controlled. With a simple turn of the adjusting knob, the ENDOCAMELEON® enables the user to easily select the direction of view between 0° and 120° to suit all OR requirements.



ENDOCAMELEON® with variable direction of view, lateral view

ENDOCAMELEON® with variable direction of view, isometric view

1-12

ENDOCAMELEON® NEW

Diameter 10 mm, lengths 32 and 42 cm

Trocar size 11 mm

Special Features:

- **Variable direction of view 0° – 120°**
- **HOPKINS® telescope with unique rod lens system**
- **Easy-to-use adjusting knob for selecting the direction of view**
- **Rigid sheath with a diameter of 10 mm**

26003 AE

26003 AE	**ENDOCAMELEON® HOPKINS® Telescope,** diameter 10 mm, **length 32 cm, autoclavable,** variable direction of view from 0° – 120°, adjustment knob for selecting the desired direction of view, fiber optic light transmission incorporated, color code: gold
26003 AEE	**Same, length 42 cm**

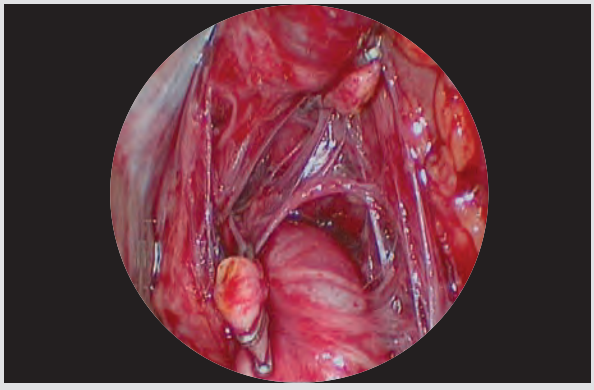


Fig. 1: *Choledochus duct in SILS cholecystectomy, angle of view, 70°*

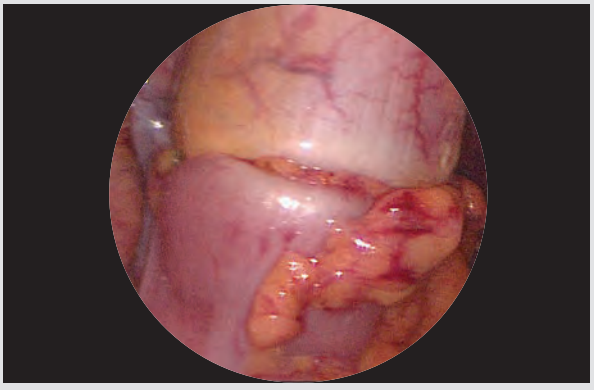


Fig. 2: *Sigma anastomosis, angle of view, 90°*

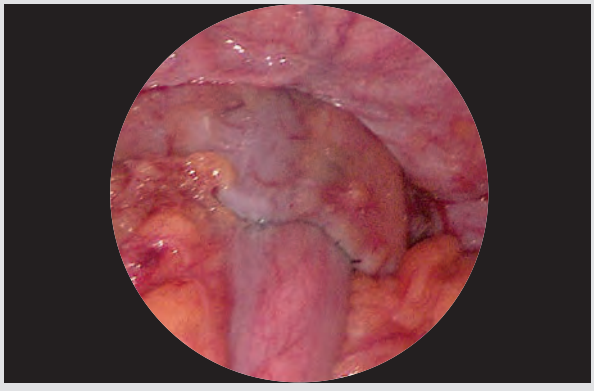


Fig. 3: *Rectal anastomosis, angle of view, 30°*

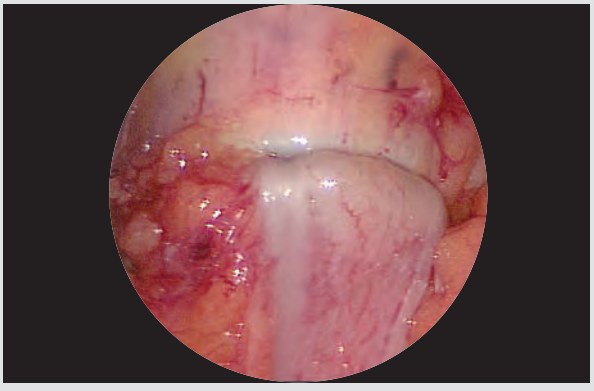


Fig. 4: *Rectal anastomosis, angle of view, 80°*

Source: Thomas Carus, M. D., Cuxhaven

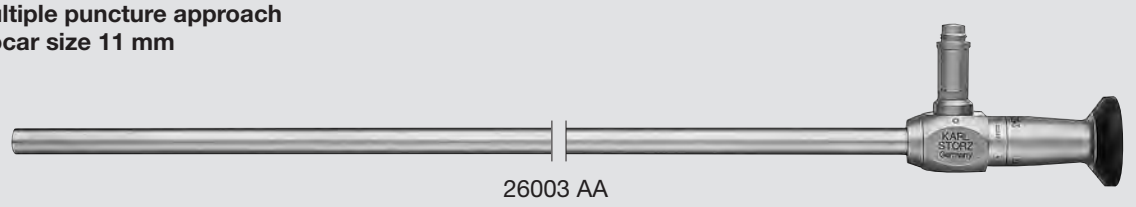
1-12

HOPKINS® Laparoscopes

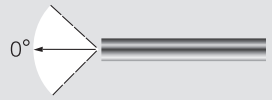
enlarged view, diameter 10 mm

KARL STORZ — ENDOSKOPE

Multiple puncture approach
Trocar size 11 mm



26003 AA

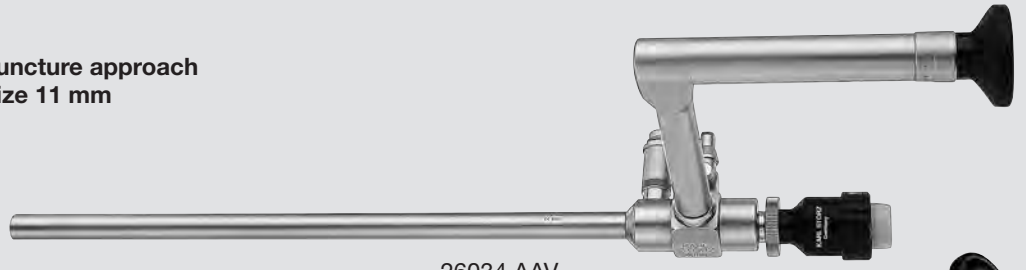


26003 AA — **HOPKINS® II Straight Forward Telescope 0°,** enlarged view, diameter 10 mm, length 31 cm, **autoclavable,** fiber optic light transmission incorporated,
color code: green

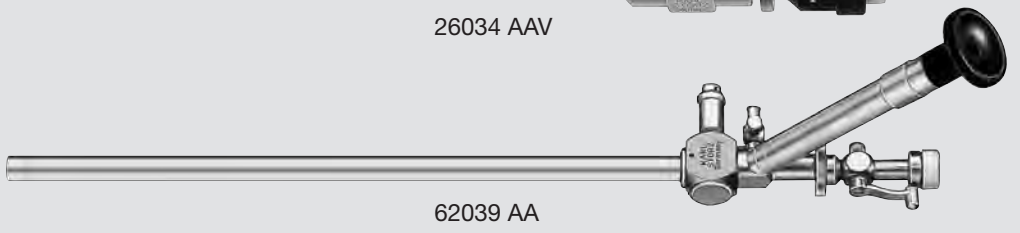
26003 BA — **HOPKINS® II Forward-Oblique Telescope 30°,** enlarged view, diameter 10 mm, length 31 cm, **autoclavable,** fiber optic light transmission incorporated,
color code: red

26003 FA — **HOPKINS® II Telescope 45°,** enlarged view, diameter 10 mm, length 31 cm, **autoclavable,** fiber optic light transmission incorporated,
color code: black

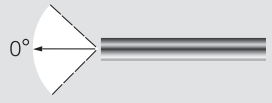
Single puncture approach
Trocar size 11 mm



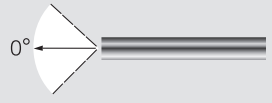
26034 AAV



62039 AA



NEW 26034 AAV — **HOPKINS® Straight Forward Telescope 0°,** with parallel eyepiece, diameter 10 mm, length 23 cm, **autoclavable,** fiber optic light transmission incorporated, **with 6 mm working channel,** including adaptor with Silicone Leaflet Valve 26034 V



NEW 62039 AA — **HOPKINS® Straight Forward Telescope 0°,** enlarged view, with angled eyepiece, diameter 10 mm, length 25.5 cm, **autoclavable,** fiber optic light transmission incorporated and 5 mm working channel for rigid operating instruments

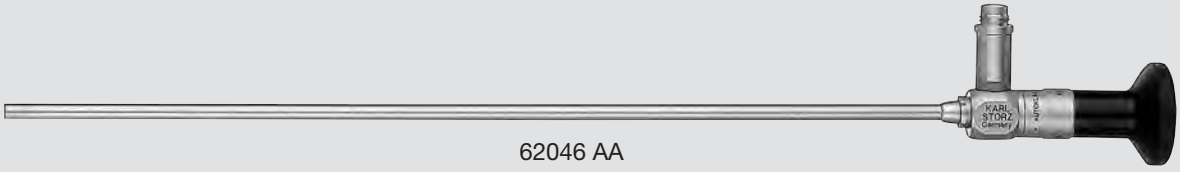
1-12

Trocars for use with 10 mm telescopes, see pages 56, 61-62 and 67

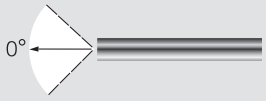
HOPKINS® II Laparoscopes

Telescopes, diameter 5/3 mm

Telescopes, diameter 5 mm
Trocar size 6 mm
Multiple puncture approach



62046 AA

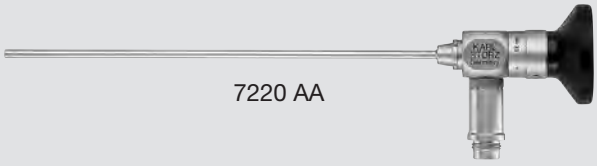


62046 AA — **HOPKINS® II Straight Forward Telescope 0°,** enlarged view, diameter 5 mm, length 29 cm, **autoclavable,** fiber optic light transmission incorporated,
color code: green

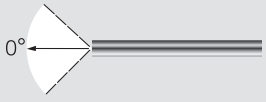
62046 BA — **HOPKINS® II Forward-Oblique Telescope 30°,** enlarged view, diameter 5 mm, length 29 cm, **autoclavable,** fiber optic light transmission incorporated,
color code: red

26046 FA — **HOPKINS® II Telescope 45°,** enlarged view, diameter 5 mm, length 29 cm, **autoclavable,** fiber optic light transmission incorporated,
color code: black

Telescopes, diameter 3 mm
Trocar size 3.5 mm
Multiple puncture approach



7220 AA



7220 AA — **HOPKINS® II Straight Forward Telescope 0º,** enlarged view, diameter 3 mm, length 14 cm, **autoclavable,** fiber optic light transmission incorporated,
color code: green

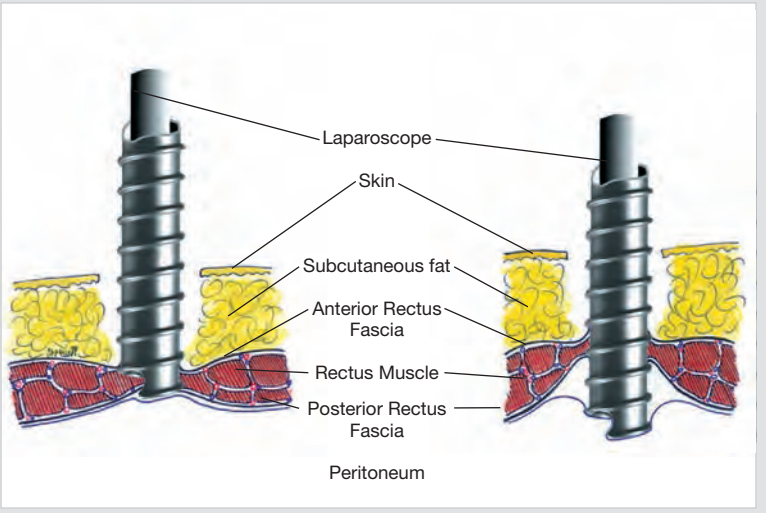
7220 BA — **HOPKINS® II Forward-Oblique Telescope 30º,** enlarged view, diameter 3 mm, length 14 cm, **autoclavable,** fiber optic light transmission incorporated,
color code: red

5-06

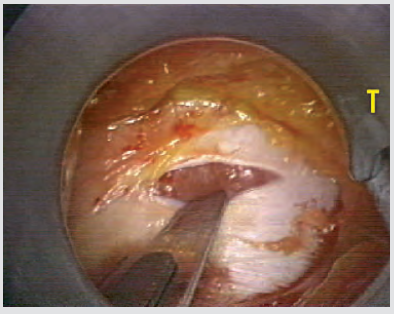
Trocars for use with 3 and 5 mm telescopes see pages 57-58, 63-65 and 67-68

TERNAMIAN **EndoTIP System**

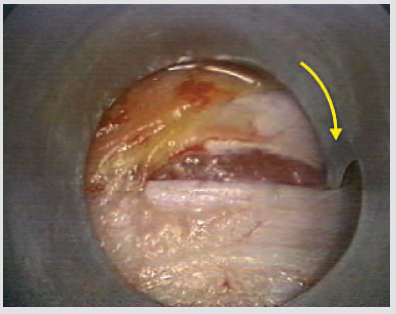
The TERNAMIAN **EndoTIP** System (**E**ndoscopic **T**hreaded **I**maging **P**ort) is a new KARL STORZ instrument for optically controllable access to the abdominal cavity. It replaces conventional trocars and, due to its unique design, offers a range of notable advantages for both surgeon and patient.



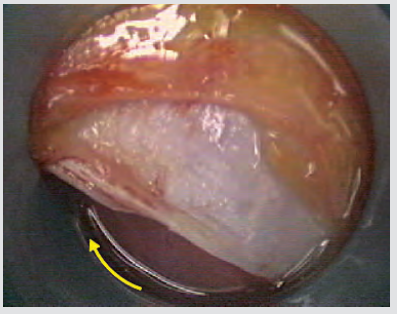
- The tissue is not cut through as it is when punctured with a conventional trocar, but is merely displaced. The integrity of the fasciae is preserved, and, therefore, that of the fascial closure mechanism.
- As sharp points or cutting trocars are not used, the risk of unintentional injuries to the patient is eliminated.
- Since the TERNAMIAN **EndoTIP** System is not pushed into the peritoneum by applying pressure, but is introduced by controlled rotation, injuries to organs caused by uncontrolled penetration of the abdominal wall are virtually impossible.
- In conjunction with a HOPKINS® Telescope, the surgeon has an excellent, enlarged image of the point of penetration and is, therefore, able to carefully monitor the penetration under optical control. The various tissue layers can be identified precisely.
- The special design of the TERNAMIAN **EndoTIP** System ensures a secure hold in the abdominal wall and prevents gas loss at the point of penetration.



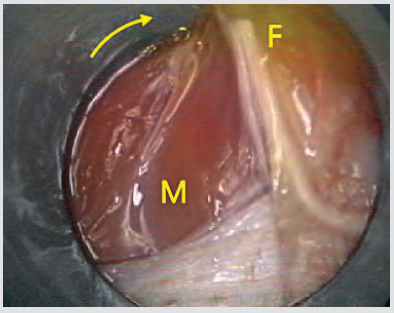
A small horizontal anterior rectus fascial incision is made under magnified video control. Blunt cannula tip (T).



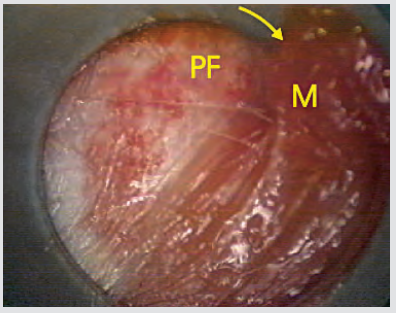
*The TERNAMIAN **EndoTIP** cannula is engaged in the anterior rectus fascial window and rotated clockwise.*



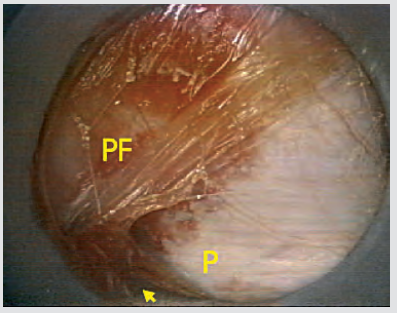
Under clear visual control the cannula advances atraumatically without applying axial penetration force.



Rotation stretches radially, transposes and then lifts the anterior rectus fascia (F) and muscle (M) on to the cannula's outer thread.

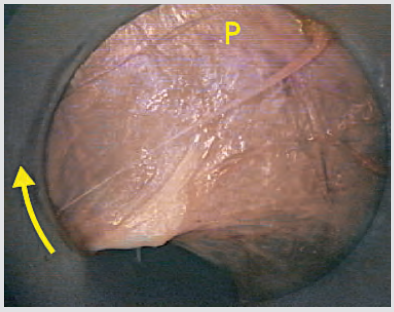


The rectus muscle (M) is transposed laterally to expose the posterior rectus fascia (PF).



Further rotation will lift the posterior rectus fascia (PF) and advance the cannula to the pre-peritoneal space (P).

10-00

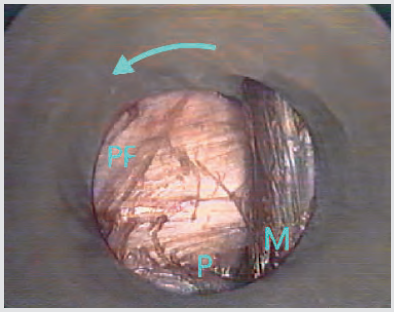


The thin peritoneal membrane transilluminates and appears blue-gray in color (P).

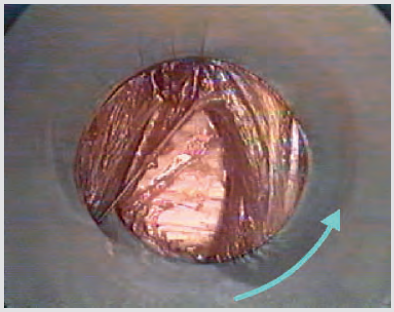
*Continuous video control demonstrates different entry and exit layers clearly. This unique feature of the TERNAMIAN **EndoTIP** System allows the surgeon to stop advancing the cannula if bowel, vessels or adhesions are observed.*

Access is under magnified visual control and atraumatic. Fascia and muscle fibers are not transected. The cannula's thread acts as a stabilizer to prevent slippage and discourage CO_2 leakage.

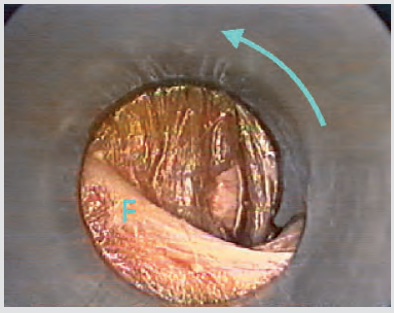
When the surgery is completed the cannula is rotated counter-clockwise. The different tissue layers disengage from the outer thread to converge in perfect apposition.



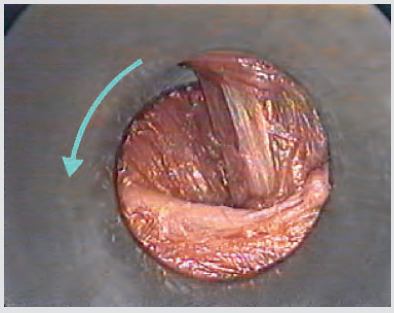
The peritoneum appears first (P), followed by the posterior rectus fascia (PF), rectus muscle (M), and then the anterior rectus fascia.



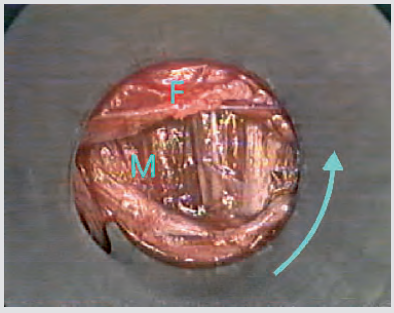
The rectus muscle fibers meet vertically to seal the peritoneal window, while the anterior rectus fascia shuts horizontally, to restore the natural tissue fiber orientation.



Since access is under visual control, hiatal or omental herniation along the cannula's tract is avoided. Lower half of anterior rectus fascia (F).



As sharp instruments or trocars are not used, muscle and fascial fibers are not transected and no tripolar fascial rent is sustained.



Tissue integrity is preserved at the access and exit site, maintaining the natural muscle shutter-mechanism.

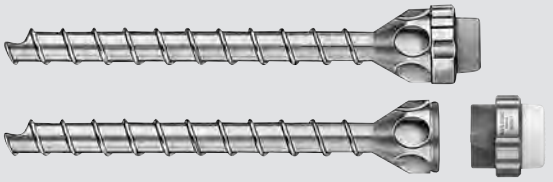
10-00

TERNAMIAN **EndoTIP Cannulas**

Size 11 and 13.5 mm

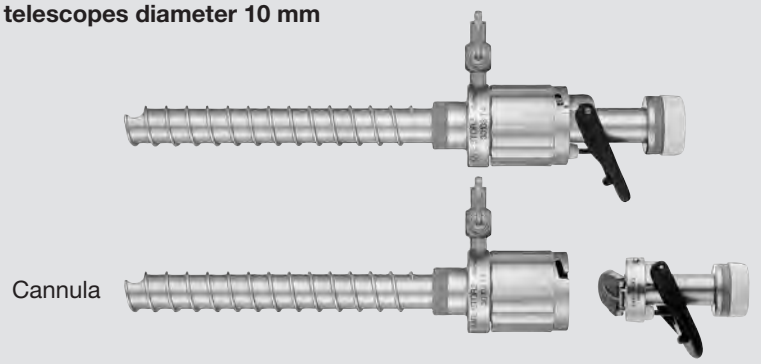
KARL STORZ — ENDOSKOPE

without insufflation adaptor
for use with telescopes diameter 10 mm



Size:		**11 mm**
working length:		8.5 cm
color code:		green-white
	TERNAMIAN **EndoTIP Cannula** including:	**60103 MS**
	Cannula, with thread, without insufflation stopcock	30103 T7
	Silicone Leaflet Valve	30103 L1
Accessories	**Telescope Stopper,** sterile, for single use, package of 12	30103 CS

with insufflation adaptor
for use with telescopes diameter 10 mm



Size:		**11 mm**	**13.5 mm**
working length:		8.5 cm	11.5 cm
color code:		green-white	blue
	TERNAMIAN **EndoTIP Cannula** including:	**60103 MVR**	NEW **30108 MTR**
	Cannula, with thread and rotating insufflation stopcock	30103 T5	30108 T4
	Multifunctional Valve	30103 M1	30108 M1
Accessories	**Telescope Stopper,** sterile, for single use, package of 12	30103 CS	

1-12

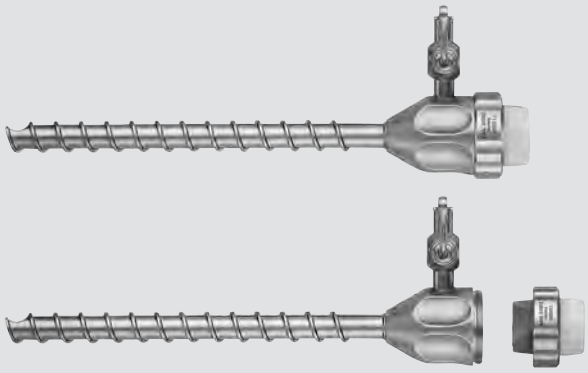
Telescopes for use with TERNAMIAN **EndoTIP Cannulas, size 11 mm** see page 52
Reducers see page 70

TERNAMIAN **EndoTIP Cannulas**

Size 6 mm

KARL STORZ — ENDOSKOPE

with and **without** insufflation adaptor
for use with instruments and telescopes
diameter 5 mm



Cannula

Silicone Leaflet Valve

with insufflation adaptor

Size:		**6 mm**
working length:		6.5 cm
color code:		black-white
	TERNAMIAN **EndoTIP Cannula** including: **Cannula,** with thread, with insufflation stopcock **Silicone Leaflet Valve**	**60120 MSS** 30120 T9 30120 L1
Accessories	**Telescope Stopper,** sterile, for single use, package of 12	30160 CS

without insufflation adaptor

Size:		**6 mm**
working length:		6.5 cm
color code:		black-white
	TERNAMIAN **EndoTIP Cannula** including: **Cannula,** with thread, without insufflation stopcock **Silicone Leaflet Valve**	**60120 MS** 30120 T7 30120 L1
Accessories	**Telescope Stopper,** sterile, for single use, package of 12	30160 CS

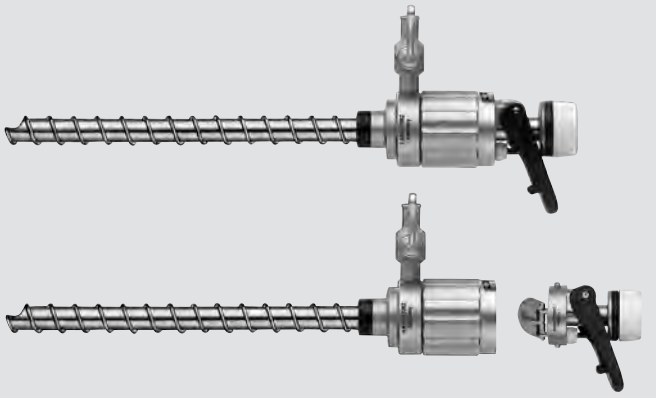
Telescopes for use with TERNAMIAN **EndoTIP Cannulas, size 6 mm** see page 53

TERNAMIAN **EndoTIP Cannulas**

Size 6 mm

KARL STORZ — ENDOSKOPE

<u>with</u> insufflation adaptor
for use with instruments
and telescopes diameter 5 mm



Size:		**6 mm**	
Working length: Color code:		8.5 cm black-white	10.5 cm black
	TERNAMIAN **EndoTIP Cannula** including:	**60160 MVR**	**60160 MTR**
	Cannula, with thread and rotatable insufflation stopcock	30160 T5	30160 T4
	Multifunctional Valve	30160 M1	30160 M1
Accessory 	**Telescope Stopper,** sterile, for single use, package of 12	30160 CS	

1-12

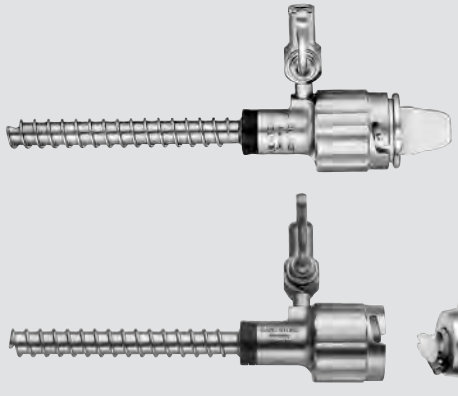
Telescopes for use with TERNAMIAN **EndoTIP Cannulas, size 6 mm** see page 53

TERNAMIAN **EndoTIP Cannulas**

Size 3.9 mm

KARL STORZ — ENDOSKOPE

<u>with</u> connector for insufflation
for use with instruments, size 3/3.5 mm
and telescopes, diameter 3.3 mm



Cannula

Automatic Valve

Size:		**3.9 mm**
Working length:		5 cm
Color code:		red
	TERNAMIAN **EndoTIP Cannula** including: **Cannula,** with thread and insufflation stopcock **Automatic Valve**	**30117 MT** 30117 T2 30117 A1
Accessory 	**Telescope Stopper,** sterile, for single use, package of 12	30117 CS

Telescopes for use with TERNAMIAN **EndoTIP Cannulas, size 3.9 mm** see page 53

Trocars

Size 13.5 mm

KARL STORZ — ENDOSKOPE

<u>with</u> insufflation adaptor
for use with linear staplers from the company Ethicon (J&J)

Size:		**13.5 mm**
working length:		11.5 cm
color code:		blue
	Trocar, with pyramidal tip including: **Cannula** **Trocar only** **Multifunctional Valve**	**30108 MP** 30108 H2 30108 P 30108 M1
	Trocar, with blunt tip including: **Cannula** **Trocar only** **Multifunctional Valve**	**30108 MA** 30108 H2 30108 A 30108 M1

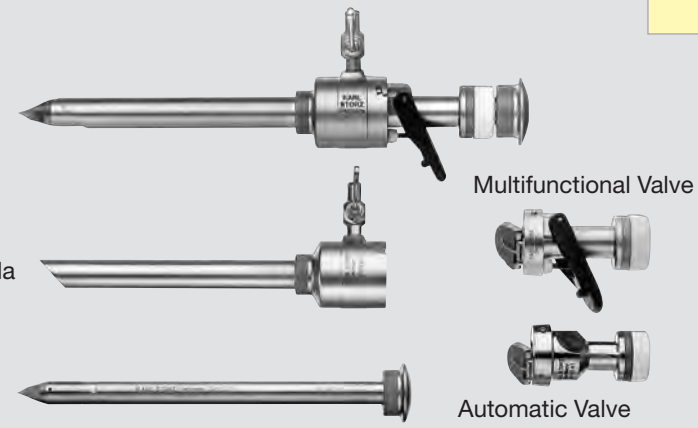
1-12

Trocars

Size 11 mm

KARL STORZ — ENDOSKOPE

with insufflation adaptor



Size:		11 mm			
working length: color code:		8.5 cm green-white	10.5 cm green	8.5 cm green-white	10.5 cm green
		Multifunctional Valve		**Automatic Valve**	
	Trocar, with conical tip including: **Cannula** **Trocar only** **Valve**	**62103 WY** 30103 H1 30103 Y 30103 M1	**62103 MC** 30103 H2 30103 C 30103 M1	**62103 FY** 30103 H1 30103 Y 30103 A1	**62103 AC** 30103 H2 30103 C 30103 A1
	Trocar, with pyramidal tip including: **Cannula** **Trocar only** **Valve**	**62103 WZ** 30103 H1 30103 Z 30103 M1	**62103 MP** 30103 H2 30103 P 30103 M1	**62103 FZ** 30103 H1 30103 Z 30103 A1	**62103 AP** 30103 H2 30103 P 30103 A1
	Trocar, with blunt tip including: **Cannula** **Trocar only** **Valve**	**62103 WX** 30103 H1 30103 X 30103 M1	**62103 MA** 30103 H2 30103 A 30103 M1	**62103 FX** 30103 H1 30103 X 30103 A1	**62103 AA** 30103 H2 30103 A 30103 A1

Reducers see page 70

1-12

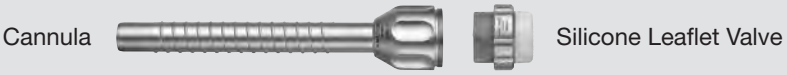
Trocars

Size 11 mm

KARL STORZ — ENDOSKOPE

<u>without</u> insufflation adaptor

color code: green-white, size 11 mm, working length 6.5 cm



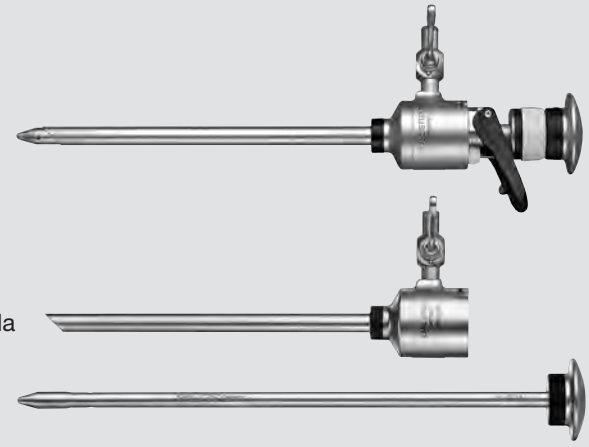
Size:		**11 mm**
working length: color code:		6.5 cm green-white
	Trocar, with conical tip including: **Cannula,** with thread **Trocar only** **Silicone Leaflet Valve**	**60123 EW** 30123 E1 30123 W 30123 L1
	Trocar, with pyramidal tip including: **Cannula,** with thread **Trocar only** **Silicone Leaflet Valve**	**60123 EZ** 30123 E1 30123 Z 30123 L1
	Trocar, with blunt tip including: **Cannula,** with thread **Trocar only** **Silicone Leaflet Valve**	**60123 EV** 30123 E1 30123 V 30123 L1

1-12

Trocars

Size 6 mm

with connector for insufflation



Multifunctional Valve

Automatic Valve

Size:		**6 mm**			
Working length: Color code:		8.5 cm black-white	10.5 cm black	8.5 cm black-white	10.5 cm black
		Multifunctional Valve		**Automatic Valve**	
	Trocar, with conical tip including: **Cannula** **Trocar only** **Valve**	**62160 WY** 30160 H1 30160 Y 30160 M1	**62160 MC** 30160 H2 30160 C 30160 M1	**62160 FY** 30160 H1 30160 Y 30160 A1	**62160 AC** 30160 H2 30160 C 30160 A1
	Trocar, with pyramidal tip including: **Cannula** **Trocar only** **Valve**	**62160 WZ** 30160 H1 30160 Z 30160 M1	**62160 MP** 30160 H2 30160 P 30160 M1	**62160 FZ** 30160 H1 30160 Z 30160 A1	**62160 AP** 30160 H2 30160 P 30160 A1
	Trocar, with blunt tip including: **Cannula** **Trocar only** **Valve**	**62160 WX** 30160 H1 30160 X 30160 M1	**62160 MA** 30160 H2 30160 A 30160 M1	**62160 FX** 30160 H1 30160 X 30160 A1	**62160 AA** 30160 H2 30160 A 30160 A1

Telescopes for use with trocars size 6 mm see page 53

1-12

Trocars NEW

Size 6 mm

KARL STORZ — ENDOSKOPE

with insufflation adaptor
for use with instruments size 5 mm

Size:		**6 mm**		
working length:		5 cm	8.5 cm	10.5 cm
color code:		black-green	black-white	black
	Trocar, with conical tip	**30160 GYK**	**30160 GYM**	**30160 GC**
	including:			
	Cannula, with LUER-Lock Connector	30160 G3	30160 G2	30160 G1
	Trocar only	30160 YK	30160 Y	30160 C
	Silicone Leaflet Valve	30160 L1	30160 L1	30160 L1
	Trocar, with pyramidal tip	**30160 GZK**	**30160 GZM**	**30160 GP**
	including:			
	Cannula, with LUER-Lock Connector	30160 G3	30160 G2	30160 G1
	Trocar only	30160 ZK	30160 Z	30160 P
	Silicone Leaflet Valve	30160 L1	30160 L1	30160 L1
	Trocar, with blunt tip	**30160 GXK**	**30160 GXM**	**30160 GA**
	including:			
	Cannula, with LUER-Lock Connector	30160 G3	30160 G2	30160 G1
	Trocar only	30160 XK	30160 X	30160 A
	Silicone Leaflet Valve	30160 L1	30160 L1	30160 L1
	Trocar	**30160 GRK**	**30160 GRM**	**30160 GB**
	including:			
	Cannula, with LUER-Lock Connector	30160 G3	30160 G2	30160 G1
	Trocar only	30160 RK	30160 R	30160 B
	Silicone Leaflet Valve	30160 L1	30160 L1	30160 L1

1-12

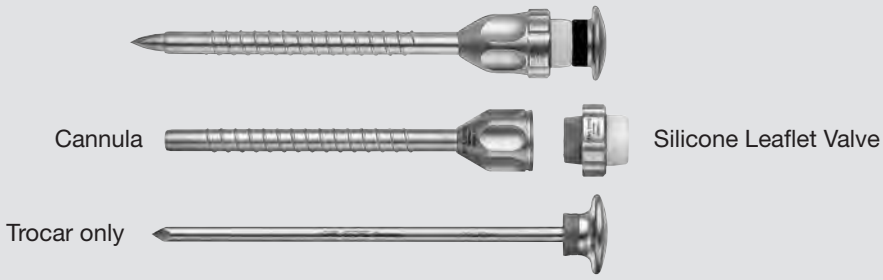
Telescopes for use with trocars size 6 mm see page 53

Trocars

Size 6 mm

KARL STORZ — ENDOSKOPE

color code: black-white, working length 6 cm



<u>without</u> insufflation adaptor

Size:		**6 mm**
working length: color code:		6 cm black-white
	Trocar, with conical tip including: **Cannula,** with thread **Trocar only** **Silicone Leaflet Valve**	**62120 EH** 30120 E1 30120 H 30120 L1
	Trocar, with pyramidal tip including: **Cannula,** with thread **Trocar only** **Silicone Leaflet Valve**	**62120 EK** 30120 E1 30120 K 30120 L1
	Trocar, with blunt tip including: **Cannula,** with thread **Trocar only** **Silicone Leaflet Valve**	**62120 EO** 30120 E1 30120 O 30120 L1

<u>with</u> insufflation adaptor

Size:		**6 mm**
working length: color code:		6 cm black-white
	Trocar, with blunt tip including: **Cannula,** with thread **Trocar only** **Silicone Leaflet Valve**	**30120 EOX** 30120 EX1 30120 O 30120 L1

5-06

Open Laparoscopy

Size 6 mm

For open laparoscopy
to establish pneumoperitoneum without the use of a VERESS needle or sharp trocar

30160 C3

30160 C3	**Ribbed Cone,** with 2 discs for fixation of sutures, for trocars size 6 mm, color code: black
30103 C3	**Ribbed Cone,** with 2 discs for fixation of suture, for trocars size 11 mm, color code: green

1-12

Trocars for Thoracoscopy

Size 6 and 11 mm

without insufflation adaptor
for use with curved surgical instruments

Cannula

Trocar only

Size:		6 mm	11 mm
working length:		8.5 cm	8.5 cm
color code:		black	green
	Trocar, with blunt tip	**30120 NOL**	**30123 NOL**
	including:		
	Cannula, flexible, with thread and silicone leaflet valve	30120 NL	30123 NL
	Trocar only	30120 NO	30123 O
Accessories	**Plastic Cannula, autoclavable,** for flexible trocars, package of 5	30120 X	30123 X

Size:		6 mm	
working length:		4 cm	6 cm
	Trocar, with blunt tip	**40160 AB**	**40160 CD**
	including:		
	Cannula, with thread	40160 A	40160 C
	Trocar only	40160 B	40160 D

1-12

Trocars

Size 3.9 and 3.5 mm

KARL STORZ — ENDOSKOPE

For use in small animals less than 10 kg

For use with 2.7 mm telescope in conjunction with Protection Sheath 64018 US

Size:		**3.9 mm**
working length:		5 cm
color code:		red
	Trocar, with pyramidal tip including:	NEW **62117 GK**
	Cannula, with outer thread,with LUER-lock connector for insufflation	30117 G4
	Trocar only	30117 PK
	Silicone Leaflet Valve	30117 L1

Lightweight trocar model for use with instruments and HOPKINS® telescopes 3 mm and 2 mm

Size:		**3.5 mm**
working length:		5 cm
color code:		green
	Trocar, with pyramidal tip including:	NEW **62114 GK**
	Cannula, with LUER-Lock cone, with thread	62114 G1
	Trocar only	30114 K
	Silicone Leaflet Valve	30114 L1

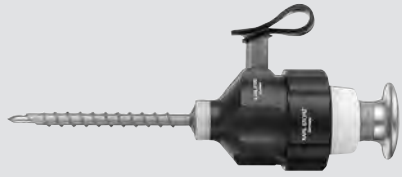
1-12

HOPKINS® Telescopes for use with Trocars, size 3.5 mm see page 53

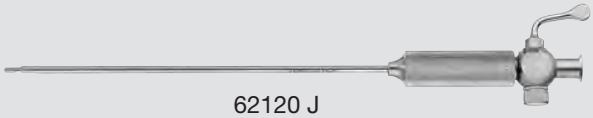
Trocar and VERESS Needle

For use in small animals less than 10 kg

For use with 2 mm instruments



Size:	2.5 mm
working length:	4 cm
color code:	blue
Trocar, with pyramidal tip including:	NEW **62603 GK**
Cannula, with outer thread,with LUER-lock connector for insufflation	62603 G1
Trocar only	11603 K
Silicone Leaflet Valve	11603 L1



62120 J

62120 J VERESS **Pneumoperitoneum Needle,** with spring-loaded blunt stylet, LUER-Lock, **autoclavable,** diameter 2.1 mm, length 10 cm

1-12

Reduction Sleeves

30140 DB

Instrument Diameter	Cannula Outer Diameter – Color Code:	
	6 mm black	11 mm green
3 mm	30140 KA	30140 DA
5 mm	–	30140 DB

Reducers

62141 AA

62141 DB

62141 AA **Reducer,** 6/3 mm

62141 DB **Reducer,** 11/5 mm, flip style (optional for larger ovaries)

Reducers for use with trocars and TERNAMIAN EndoTIP cannulas with silicone leaflet valve

30160 RE

NEW 30160 RE **Reducer,** 6/3 mm

NEW 30103 RE **Reducer,** 11/5 mm

NEW 30141 HB **Reducer,** 13/5 mm and 13.5/5 mm

Thread Sleeves for Trocars

30160 S

30160 S **Thread Sleeve,** for trocar size 6 mm, color code: black

30103 S **Thread Sleeve,** for trocar size 11 mm, color code: green

Distance holders to limit the depth of puncture

30160 D

30160 D **Distance Holder,** for trocars size 6 mm, color code: black

30103 D **Distance Holder,** for trocars size 11 mm, color code: green

Sealing Caps, with color code

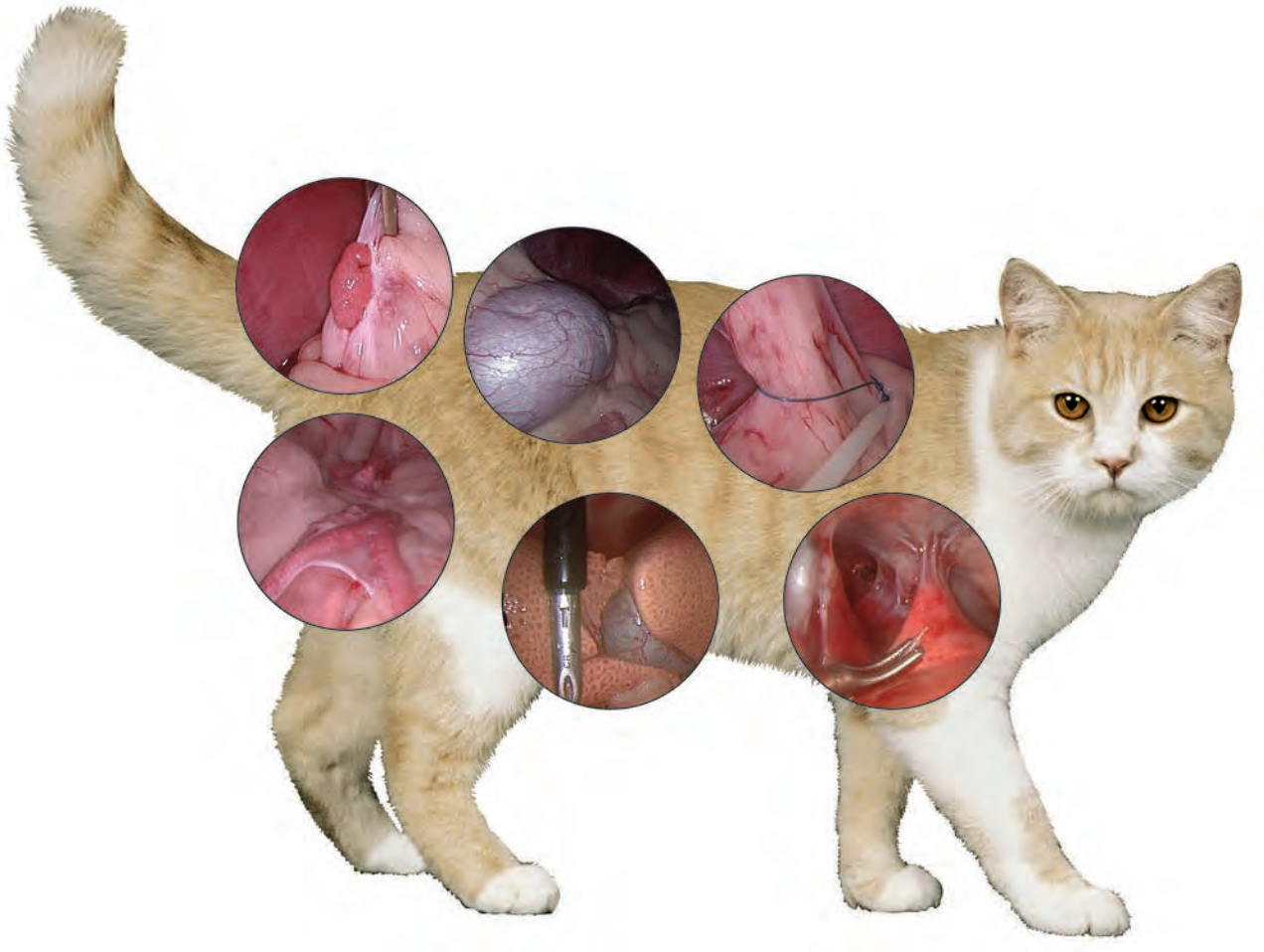
30100 XA

30100 XA **Sealing Cap,** size 5 mm, **autoclavable,** package of 5, for use with trocars size 6 mm and extractors/reduction sleeves in conjunction with instruments, color code: black

30100 XB **Sealing Cap,** size 10 mm, **autoclavable,** package of 5, for use with trocars size 11 mm and extractors/reduction sleeves in conjunction with instruments, color code: green

1-12

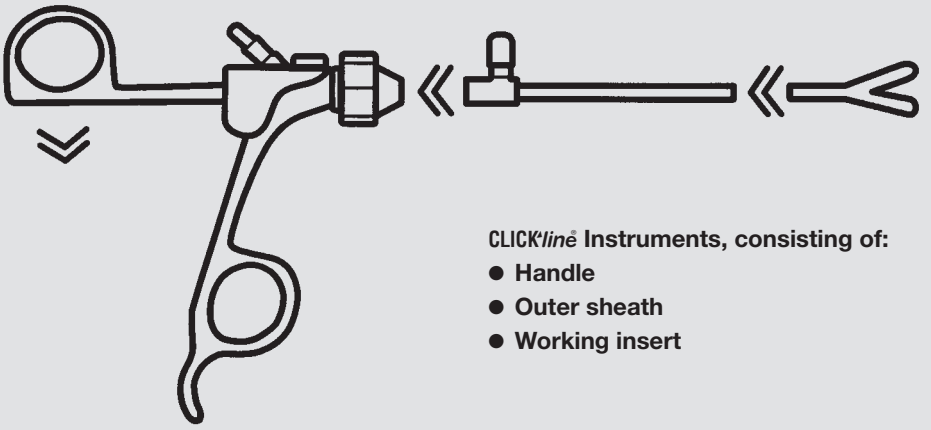
DISSECTING AND GRASPING FORCEPS
BIOPSY FORCEPS AND SCISSORS



Endoscopic photos courtesy of Dr. Timothy C. McCarthy

KARL STORZ CLICK*line*®

rotating, dismantling, endoscopic instruments



CLICK*line*® Instruments, consisting of:

- **Handle**
- **Outer sheath**
- **Working insert**

Nothing could be simpler!

The CLICK*line*® series continues the development of instruments which have proven their value for years. The simplicity of handling and ease with which the instruments can be cleaned has been improved, in particular with respect to of assembly and disassembly. When the rear handle is positioned horizontally, the handle can be separated from the outer sheath and the working insert at the press of a button. Reassembly is equally reliable and quick. The high frequency connection is mounted in a 45° angle on the upper side of the handle, thereby ergonomically guiding the high frequency cable away from the field of operation.

Available in size 2 to 10 mm, CLICK*line*® instruments can be completely disassembled into separate components:

- Handle
- Outer sheath/outer sheath with working insert
- Working insert

This unique, reusable two/three-piece design offers the surgeon the following benefits:

- Available in size 2 mm, length 20 cm; size 3/3.5 mm, length 20 or 30 cm; size 5 and 10 mm, length 30, 36 and 43 cm
- Choice of handle styles
- Fully rotational 360° sheath facilitates easy access in all clinical situations
- No hidden spaces that can trap blood or tissue debris
- Can be dismantled at the press of a button – reducing instrument cleaning time considerably
- Completely autoclavable design
- Cost-effective – reusable instruments reduce O.R. costs per case and simplify inventory management, eliminating the need to store large quantities of disposable instruments
- Environmentally correct, i.e. if damage occurs, only the component with the defect needs to be replaced – not the entire instrument
- Convenient and ergonomic handling
- Cleaning port allows the instrument to be cleaned without disassembly

1-12

Due to the modular CLICK*line*® system, the user can individually assemble the desired instrument at any time.

User Information

For easy location of the correct catalog number for the required CLICK*line*® Instrument

How to find the required instrument:

- **(a)** Select the required **instrument size** and type of **jaws**
- **(c)** Select the required **handle style**
- **(d)** The catalog number for the completely assembled instrument can be found at the point where the selected parameters intersect (see table below).

Example:

66331 MF **CLICK*line*® Dissecting and Grasping Forceps,** atraumatic

Dissecting and Grasping Forceps

CLICK*line*® – rotating, dismantling, with or without connector pin for unipolar coagulation

Size 5 mm, length 36 cm

unipolar

Length	Handle		
	(b) 33121	33122	33123
36 cm			

(a)

Working Insert No.	Complete Instrument		
33310 MF	**(c)** 66321 MF	66322 MF	66323 MF

CLICK*line*® Dissecting and Grasping Forceps, atraumatic, especially designed for grasping and removing hollow organs

Length of jaws in mm (approx. measurements)

5-061

Please note:
Among CLICK*line*® instruments only the **single component parts** are numbered. The number for the **complete** instrument is not etched on it. Instruments with **insulated handles with connector** for unipolar coagulation are shown against the **red background.** Instruments with **handles without connector pin** for unipolar coagulation are shown against the **blue** background. The colour **green** indicates the **working inserts.**

Handles, Outer Sheaths

for Dissecting and Grasping Forceps,
CLICK*line*® – rotating, dismantling, with connector pin for unipolar coagulation

Plastic Handles, with and without ratchets
Made of high-quality plastics, meeting even the highest of safety requirements

unipolar

33121 CLICK*line*® **Plastic Handle, without** ratchet

33122 CLICK*line*® **Plastic Handle, with** ratchet

33123 CLICK*line*® **Plastic Handle,** with **hemostat style** ratchet

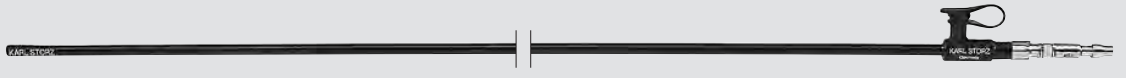
Metal Handles, with and without ratchets

33131 CLICK*line*® **Metal Handle,** rotating, **without** ratchet

33132 CLICK*line*® **Metal Handle,** rotating, **with** ratchet

33133 CLICK*line*® **Metal Handle,** rotating, with **hemostat style** ratchet

Size 5 mm
Metal Outer Sheath, insulated



33300 CLICK*line*® **Metal Outer Sheath, insulated, with** LUER-Lock connector for cleaning, size 5 mm, length 36 cm

33400 **Same,** length 43 cm

Working Inserts for insulated instruments, size 5 mm see pages 75-76

1-12

Dissecting and Grasping Forceps

CLICK*line*® – rotating, dismantling, with connector pin for unipolar coagulation

Size 5 mm, length 36 and 43 cm

unipolar

Length	Handle		
	33121	33122	33123
36 cm			
43 cm			

Working Insert No.	Complete Instrument		
33310 MF	66321 MF	66322 MF	66323 MF
24	**CLICK*line*® Dissecting and Grasping Forceps,** atraumatic, specially designed for grasping and removing hollow organs		
33310 ML	66321 ML	66322 ML	66323 ML
22	**CLICK*line*® Dissecting and Grasping Forceps,** curved		
33310 ME	66321 ME	66322 ME	66323 ME
14	**CLICK*line*® Grasping Forceps,** jaws with multiple teeth, width of jaws 4.8 mm, for atraumatic and accurate grasping		
33310 MG	66321 MG	66322 MG	66323 MG
33410 MG	–	NEW 60422 MG	NEW 60423 MG
14	**CLICK*line*® Grasping Forceps,** “tiger jaws”, 2 x 4 teeth, for grasping and removing solid organs, in particular during adhesiolysis		
33310 BA	66321 BA	66322 BA	66323 BA
33410 BA	NEW 60421 BA	NEW 60422 BA	NEW 60423 BA
16	**CLICK*line*® Grasping Forceps,** atraumatic, with multiple teeth, fenestrated, single action jaws		
33310 R	NEW 33321 R	NEW 33322 R	NEW 33323 R
16	**CLICK*line*® Dissecting and Grasping Forceps,** right angled		

10-002

Scissors, Biopsy Forceps

CLICK*line*® – rotating, insulated, with connector pin for unipolar coagulation

Size 5 mm, length 36 and 43 cm

unipolar

Length	Handle	
	33121	33123
36 cm		
43 cm		

Working Insert No.	Complete Instrument	
34310 DZ	66321 DZ	–
34410 DZ	NEW 60421 DZ	–
⊢ 13 ⊣	**CLICK*line*® Biopsy Forceps,** with 2 teeth	
34310 MA	66321 MA	–
⊢ 20 ⊣	**CLICK*line*® Scissors,** serrated, curved, spoon-shaped jaws	
34310 MW	66321 MW	–
⊢ 15 ⊣	**CLICK*line*® Scissors,** serrated, curved, conical	
34310 EH	66321 EH	–
⊢10⊣	**CLICK*line*® Hook Scissors**	
34310 DB	66321 DB	66323 DB
34410 DB	NEW 60421 DB	–
⊢ 14 ⊣	**CLICK*line*® Biopsy Forceps**	
34310 DH	66321 DH	–
33410 DH	NEW 60421 DH	–
⊢ 10 ⊣	**CLICK*line*® Biopsy Punch,** through-cutting	

10-002

Mini-Laparoscopy Instruments

for animals less than 10 kg, CLICK'*line*® – rotating, dismantling, with connector pin for unipolar coagulation

KARL STORZ — ENDOSKOPE

Size 3 mm, length 20 cm

For use with trocars size 3.5 mm

unipolar

Length	Handle		
	33121	33122	33123
20 cm			

Double Action Jaws

Outer Tube No. with Working Insert	Complete Instrument		
30310 MDS	30321 MDS	30322 MDS	30323 MDS
⊢ 10 ⊣	CLICK'*line*® KELLY **Dissecting and Grasping Forceps**		
30310 ULS	30321 ULS	30322 ULS	30323 ULS
⊢ 11 ⊣	CLICK'*line*® REDDICK-OLSEN **Dissecting and Grasping Forceps,** robust		
30310 MWS	30321 MWS	–	–
⊢ 10 ⊣	CLICK'*line*® **Scissors,** serrated, curved, conical		

Single Action Jaws

30310 DBS	30321 DBS	–	–
⊢ 10 ⊣	CLICK'*line*® BLAKESLEY **Biopsy Forceps**		

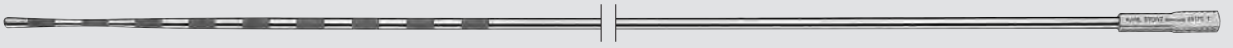
Instruments also available with a diameter of 2 mm.

1-12

Size 10 and 5 mm, length 36 cm

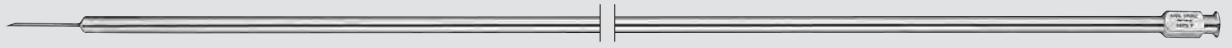
33533 DU — CLICKline® DUVAL **Grasping Forceps,** rotating, double action jaws, size 10 mm, length 36 cm
including:
Metal Handle, with hemostat style ratchet
Outer Sheath, insulated
Forceps Insert

NEW 62046 GS — **Optical Biopsy Forceps,** outer diameter 10 mm, capable of procuring biopsy samples 1 gram or more, for use with telescope 62046 AA



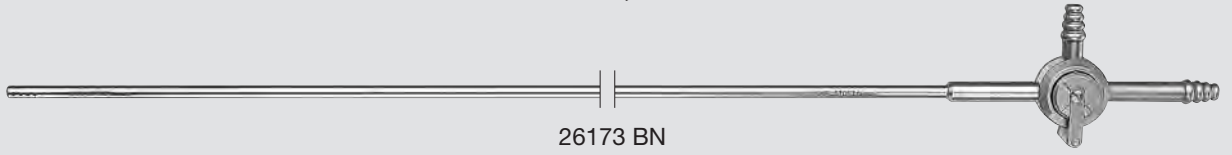
62175 T

62175 T — **Palpation Probe,** with cm-markings, size 5 mm, length 36 cm



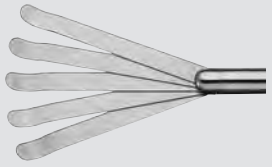
62175 P

62175 P — **Injection Cannula,** LUER-Lock, needle diameter 1.2 mm, length 36 cm
62175 PD — **Same,** diameter 0.8 mm
62175 R — **Same,** diameter 1.6 mm



26173 BN

26173 BN — **Suction and Irrigation Tube,** with lateral holes, with two-way stopcock for single hand control, size 5 mm, length 36 cm



NEW 30623 F — **Fan Retractor,** dismantling, distendable, size 5 mm, length 36 cm
NEW 30623 FP — **Same**, size 10 mm

Size 3 mm, length 20/30 cm

26167 TS

26167 TS — **Palpation Probe,** with cm-markings, size 3 mm, length 20 cm
26167 T — **Same**, length 30 cm

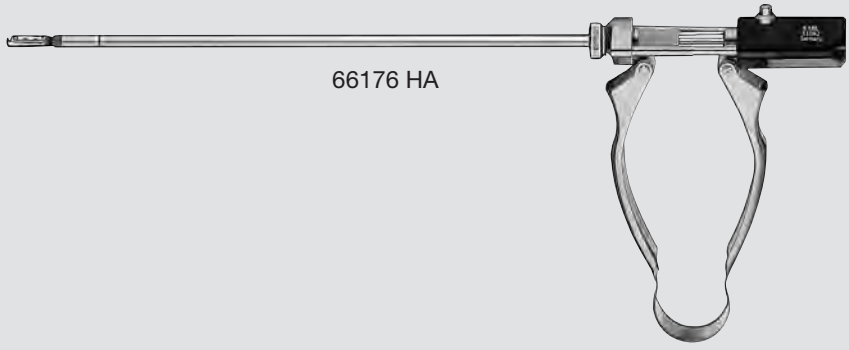
High Frequency Cords see chapter 11, UNITS
Components/Spare Parts see chapter 14

10-00₂

bipolar

Size 5 mm

Multiple puncture approach
Operating instruments for use with trocars, size 6 mm, length 33 cm



66176 HA

66176 HA **TAKE-APART® Bipolar Coagulating Forceps,** insulated, with connector pin for bipolar coagulation, size 5 mm
including:
Handle
Outer Sheath
Forceps Insert

66176 HB **TAKE-APART® Bipolar Micro Forceps,** insulated, with connector pin for bipolar coagulation, size 5 mm
including:
Handle
Outer Sheath
Forceps Insert

66176 HL **TAKE-APART® Bipolar Coagulating Forceps,** insulated, with connector pin for bipolar coagulation, size 5 mm
including:
Handle
Outer Sheath
Forceps Insert

10-00i

Components/Spare Parts see chapter 14

TAKE-APART® Instruments NEW

for Bipolar Coagulation

KARL STORZ — ENDOSKOPE

Size 3 mm

bipolar

Multiple puncture approach
Operating instruments for use with trocars, size 3.5 mm, length 20 cm

NEW 26184 HCS **TAKE-APART® Bipolar Coagulating Forceps,**
width of jaws 1 mm, size 3 mm, length 20 cm
including:
Bipolar Ring Handle
Outer Sheath
Forceps Insert

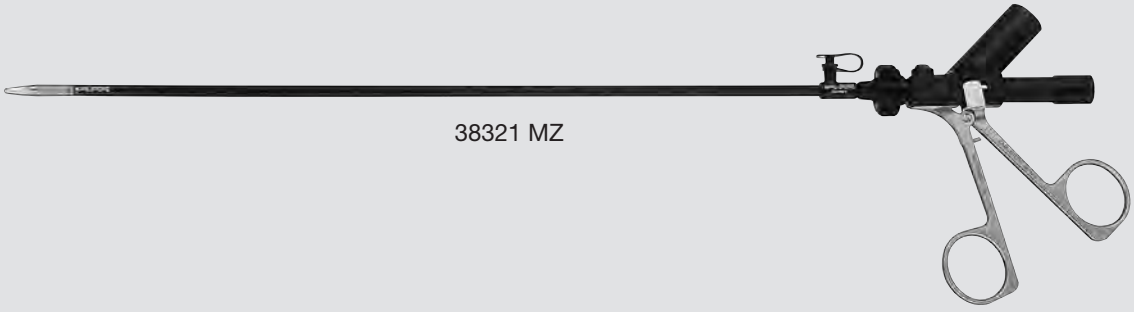
1-12

Components/Spare Parts see chapter 14

Size 5 mm

bipolar

Multiple puncture approach
Operating instruments for use with trocars, size 6 mm, length 36 cm



38321 MZ

38321 MZ **RoBi® Scissors,** CLERMONT-FERRAND model, straight, serrated, for cutting and bipolar coagulation, size 5 mm, length 36 cm

including:

RoBi® Ring Handle

RoBi® Metal Outer Sheath, insulated

RoBi® Scissors Insert

Components/Spare Parts see chapter 14

KOH **Macro Needle Holders**

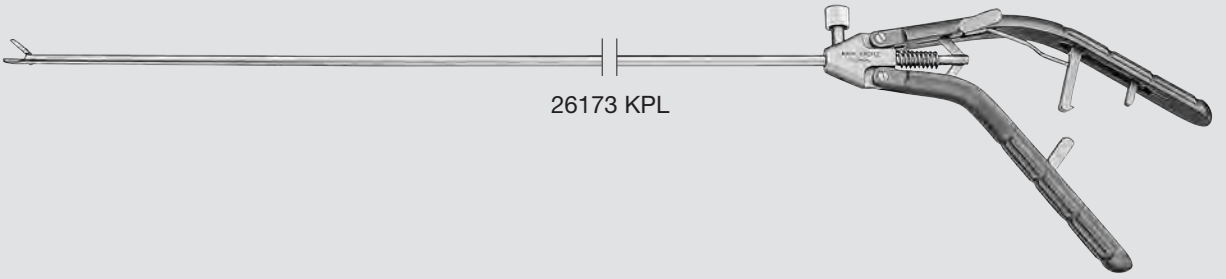
The ergonomic properties of the new 5 mm KOH macro needle holder allow for precise holding of the needles and the suture. The precision jaws and the new locking mechanism enable easy and precise guidance of the needle with suture of size 0/0 to 7/0. Specially designed to meet the demanding requirements of laparoscopic micro surgery, the KOH ultra micro instrument set enables suturing structures of even 0.5 mm.

Special Features:

- **Tungsten carbide inserts for firm and reliable needle positioning, as well as long durability**
- **Ease of operation, precise adjustable ratchet for easy and safe positioning of the needle**
- **Ergonomically designed handle for relaxed working**

Size 5 mm

Multiple puncture approach
Operating instruments, **length 33 and 43 cm,**
for use with trocars size 6 mm



26173 KPL

NEW 26173 KPF — KOH **Macro Needle Holder,** with tungsten carbide insert, ergonomic pistol handle, with disengageable ratchet, ratchet position left, jaws straight, size 5 mm, length 33 cm, for use with suture material size 0/0 to 7/0 and needle sizes BV, SH or CT-1

26178 KPF — **Same,** length 43 cm

NEW 26173 KPL — KOH **Macro Needle Holder,** with tungsten carbide insert, ergonomic pistol handle, with disengageable ratchet, ratchet position left, jaws curved to left, size 5 mm, length 33 cm, for use with suture material size 0/0 to 7/0 and needle sizes BV, SH or CT-1

26178 KPL — **Same,** length 43 cm

NEW 26173 KPR — KOH **Macro Needle Holder,** with tungsten carbide insert, ergonomic pistol handle with disengageable ratchet, ratchet position right, jaws curved to right, size 5 mm, length 33 cm, for use with suture material size 0/0 to 7/0 and needle sizes BV, SH or CT-1

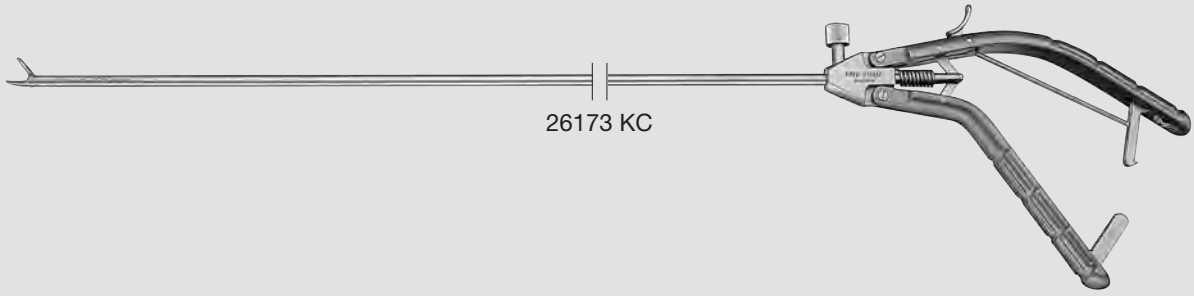
26178 KPR — **Same,** length 43 cm

1-12

KOH **Macro Needle Holders**

Size 5 mm

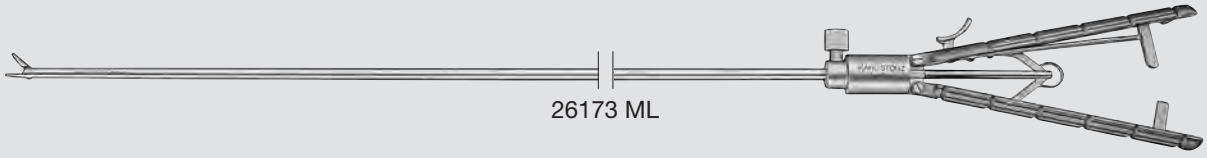
Multiple puncture approach
Operating instruments, **length 33 and 43 cm,**
for use with trocars size 6 or 11 mm with reduction sleeve



26173 KC

26173 KL — KOH **Macro Needle Holder,** with tungsten carbide insert, ergonomic handle with ratchet, ratchet position on top, jaws curved to left, size 5 mm, length 33 cm, for use with suture material size 0/0 to 7/0 and needle sizes BV, SH or CT-1

26173 KC — KOH **Macro Needle Holder,** with tungsten carbide insert, ergonomic handle with ratchet, ratchet position underneath, jaws curved right, size 5 mm, length 33 cm, for use with suture material size 0/0 to 7/0 and needle sizes BV, SH or CT-1



26173 ML

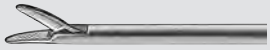
26173 ML — KOH **Macro Needle Holder,** straight handle, with ratchet, jaws curved to left, with tungsten carbide inserts, size 5 mm, length 33 cm, for use with suture material size 0/0 to 7/0

26178 ML — **Same,** length 43 cm

26173 MC — KOH **Macro Needle Holder,** straight handle, with ratchet, jaws curved to right, with tungsten carbide inserts, size 5 mm, length 33 cm, for use with suture material size 0/0 to 7/0

26178 MC — **Same,** length 43 cm

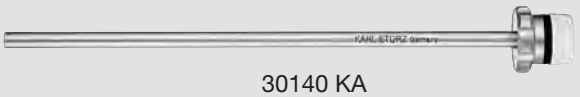
Size 3 mm



NEW 26167 FNS — KOH **Ultramicro Needle Holder,** with tungsten carbide insert, jaws curved to left, straight handle, with disengageable ratchet, length 20 cm, for use with suture material 7/0, 8/0 (Ethicon) and needle size BV 175-6

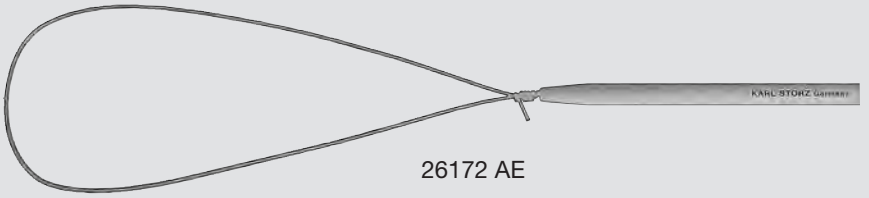
1-12

Endo-Suture, Endo-Ligature, Ovariectomy Hook



30140 KA

30140 KA **Reduction Sleeve,** reusable, instrument diameter 3 mm, trocar cannula outer diameter 6 mm, color code: black



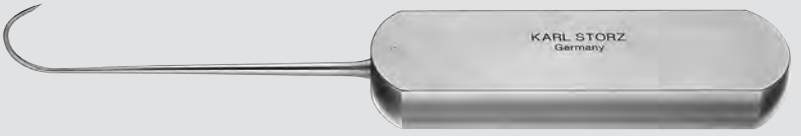
26172 AE

26172 AE **Endo-Loop Ligature,** with ROEDER knot, for bleeding stumps, with absorbable synthetic suture, for single use, sterile, USP 0, size 3 mm, length 33 cm, package of 12

Knot Tier
for use with trocar 6 mm

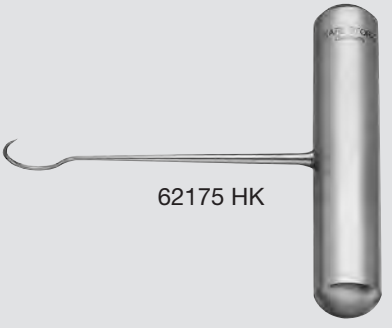
NEW 26596 SK KOECKERLING **Knot Tier,** for extracorporeal knotting, size 5 mm, length 36 cm

Ovariectomy Hook
secures ovary transabdominally during dissection and removal



62175 H

62175 H TANKERSLEY **Ovariectomy Hook,** with heavy handle, for percutaneous use, working length 8.5 cm



62175 HK

NEW 62175 HK **Ovariectomy Hook,** with heavy handle, length 8.5 cm, with small hook for percutaneous use in small dogs and cats

1-12

Diagnostic Laparoscopy

Standard Set

KARL STORZ — ENDOSKOPE

62120 J	VERESS **Pneumoperitoneum Needle,** with spring-loaded blunt stylet, LUER-Lock, **autoclavable,** diameter 2.1 mm, length 10 cm
60160 MTR	TERNAMIAN **EndoTIP Cannula,** size 6 mm, color code: black including: **Cannula,** with thread and rotating insufflation stopcock, working length 10.5 cm **Multifunctional Valve**
62160 WZ	**Trocar,** size 6 mm including: **Trocar only,** with pyramidal tip **Cannula,** without valve, with insufflation stopcock, working length 8.5 cm **Multifunctional Valve**
62046 BA	**HOPKINS® II Forward-Oblique Telescope 30°,** enlarged view, diameter 5 mm, length 29 cm, **autoclavable,** fiber optic light transmission incorporated, color code: red
62175 T	**Palpation Probe,** with cm-markings, size 5 mm, length 36 cm
66321 DB	CLICK*line* **Dissecting and Biopsy Forceps,** rotating, single action jaws, with connector pin for unipolar coagulation, size 5 mm, length 36 cm including: **Plastic Handle,** without ratchet **Metal Outer Sheath,** insulated **Forceps Insert**
66323 ML	CLICK*line* KELLY **Dissecting and Grasping Forceps,** rotating, dismantling, with connector pin for unipolar coagulation, with irrigation connector for cleaning, double action jaws, long, size 5 mm, length 36 cm including: **Plastic Handle,** with hemostat style ratchet **Metal Outer Sheath,** insulated **Forceps Insert**
66321 DH	CLICK*line* **Biopsy Punch,** single action jaws, through-cutting, size 5 mm, length 36 cm including: **Plastic Handle,** without ratchet **Metal Outer Sheath,** insulated **Forceps Insert**

1-12

Laparoscopic Surgery

Standard Set

KARL STORZ — ENDOSKOPE

	62160 MTR	TERNAMIAN **EndoTIP Cannula**
2x	62160 WZ	**Trocar,** size 6 mm including: **Trocar only,** with pyramidal tip **Cannula,** without valve, with insufflation stopcock, working length 8.5 cm **Multifunctional Valve**
	62046 BA	**HOPKINS® II Forward-Oblique Telescope 30°,** enlarged view, diameter 5 mm, length 29 cm, **autoclavable,** fiber optic light transmission incorporated, color code: red
	66323 ML	CLICK*'line*® KELLY **Dissecting and Grasping Forceps,** rotating, dismantling, with connector pin for unipolar coagulation, with irrigation connector for cleaning, double action jaws, long, size 5 mm, length 36 cm including: **Plastic Handle,** with hemostat style ratchet **Metal Outer Sheath,** insulated **Forceps Insert**
	66323 BA	CLICK*'line*® BABCOCK **Grasping Forceps,** rotating, with connector pin for unipolar coagulation, atraumatic, with multiple teeth, fenestrated, single action jaws, size 5 mm, length 36 cm including: **Plastic Handle,** with hemostat style ratchet **Metal Outer Sheath,** insulated **Forceps Insert**
	66321 MW	CLICK*'line*® **Scissors,** rotating, insulated, with connector pin for unipolar coagulation, serrated, curved, conical, double action jaws, size 5 mm, length 36 cm including: **Plastic Handle,** without ratchet **Metal Outer Sheath,** insulated **Scissors Insert**
	66176 HA	**TAKE-APART® Bipolar Coagulating Forceps,** insulated, with connector pin for bipolar coagulation, size 5 mm including: **Handle** **Outer Sheath** **Forceps Insert**
	26173 KL	KOH **Macro Needle Holder,** with tungsten carbide insert, ergonomic handle with ratchet, ratchet position on top, jaws curved to left, size 5 mm, length 33 cm, for use with suture material size 0/0 to 7/0 and needle sizes BV, SH or CT-1
	26173 KC	KOH **Macro Needle Holder,** with tungsten carbide insert, ergonomic handle with ratchet, ratchet position underneath, jaws curved right, size 5 mm, length 33 cm, for use with suture material size 0/0 to 7/0 and needle sizes BV, SH or CT-1
	26596 SK	KOECKERLING **Knot Tier,** for extracorporeal knotting, size 5 mm, length 36 cm
	26172 AE	**Endo-Loop Ligature,** with ROEDER knot, for bleeding stumps, with absorbable synthetic suture, for single use, sterile, USP 0, size 3 mm, length 33 cm, package of 12

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Instrument Sets for LAPspay NEW

KARL STORZ — ENDOSKOPE

Multi-Port LAPspay Instrument Set

62046 AA	**HOPKINS® II Straight Forward Telescope 0°,** enlarged view, diameter 5 mm, length 29 cm, **autoclavable,** fiber optic light transmission incorporated, color code: green
60120 MS	TERNAMIAN **EndoTIP Cannula,** size 6 mm, color code: black-white including: **Cannula,** with thread, working length 6.5 cm **Silicone Leaflet Valve**
60120 MSS	**Same,** with insufflation stopcock
66322 MG	CLICK*line* **Grasping Forceps,** "tiger jaws", rotating, with connector pin for unipolar coagulation, single action jaws, 2 x 4 teeth, size 5 mm, length 36 cm including: CLICK*line* **Plastic Handle,** with ratchet **Metal Outer Sheath, insulated** **Forceps Insert**
62120 J	VERESS **Pneumoperitoneum Needle,** with spring-loaded blunt stylet, LUER-Lock, **autoclavable,** diameter 2.1 mm, length 10 cm
62175 H	TANKERSLEY **Ovariectomy Hook,** with heavy handle, for percutaneous use, working length 8.5 cm
62103 FZ	**Trocar,** with pyramidal tip, automatic valve (optional for larger ovaries), size 11 mm, working length 8.5 cm
62141 DB	**Reducer,** 11/5 mm, flip style (optional for larger ovaries)

Single Port LAPspay Instrument Set

26034 AAV	**HOPKINS® Straight Forward Telescope 0°,** with parallel eyepiece, diameter 10 mm, length 23 cm, **autoclavable,** fiber optic light transmission incorporated, **with 6 mm working channel,** including adaptor with Silicone Leaflet Valve 26034 V
62103 FZ	**Trocar,** with pyramidal tip, automatic valve (optional for larger ovaries), size 11 mm, working length 8.5 cm
60120 MSS	**Same,** with insufflation stopcock
60422 MG	CLICK*line* **Grasping Forceps,** “tiger jaws”, rotating, with connector pin for unipolar coagulation, single action jaws, 2 x 4 teeth, size 5 mm, length 43 cm including: CLICK*line* **Plastic Handle,** with ratchet **Outer Sheath,** insulated **Forceps Insert**
62120 J	VERESS **Pneumoperitoneum Needle,** with spring-loaded blunt stylet, LUER-Lock, **autoclavable,** diameter 2.1 mm, length 10 cm
62175 H	TANKERSLEY **Ovariectomy Hook,** with heavy handle, for percutaneous use, working length 8.5 cm

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Mini-Laparoscopic Surgery

for animals less than 10 kg

KARL STORZ — ENDOSKOPE

	7220 AA	**HOPKINS® II Straight Forward Telescope 0°,** enlarged view, diameter 3 mm, length 14 cm, **autoclavable,** fiber optic light transmission incorporated, color code: green
3x	62114 GK	**Trocar,** size 3.5 mm, color code: green including: **Cannula,** with LUER-Lock cone, with thread, working length 5 cm **Trocar only,** with pyramidal tip **Silicone Leaflet Valve**
	26167 TS	**Palpation Probe,** with cm-markings, size 3 mm, length 20 cm
	30321 DBS	CLICK*line*® BLAKESLEY **Dissecting and Biopsy Forceps,** rotating, with connector pin for unipolar coagulation, with LUER-Lock adaptor for cleaning, single action jaws, size 3 mm, length 20 cm including: **Plastic Handle,** insulated, without ratchet **Outer Sheath,** with working insert, insulated
	30323 ULS	CLICK*line*® REDDICK-OLSEN **Dissecting and Grasping Forceps,** rotating, with connector pin for unipolar coagulation, with LUER-Lock adaptor for cleaning, double action jaws, robust, size 3 mm, length 20 cm including: **Plastic Handle,** with hemostat style ratchet **Outer Sheath,** with working insert, insulated
	30321 MWS	CLICK*line*® **Scissors,** rotating, with connector pin for unipolar coagulation, with LUER-Lock adaptor for cleaning, double action jaws, serrated, curved, conical, size 3 mm, length 20 cm including: **Plastic Handle,** without ratchet **Outer Sheath,** with scissors insert, insulated
	26184 HCS	**TAKE-APART® Bipolar Coagulating Forceps,** width of jaws 1 mm, size 3 mm, length 20 cm including: **Bipolar Ring Handle** **Outer Sheath** **Forceps Insert**
	62120 J	VERESS **Pneumoperitoneum Needle,** with spring-loaded blunt stylet, LUER-Lock, **autoclavable,** diameter 2.1 mm, length 10 cm

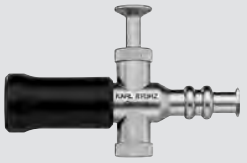
1-12

HANDLES AND INSTRUMENTS FOR SUCTION AND IRRIGATION

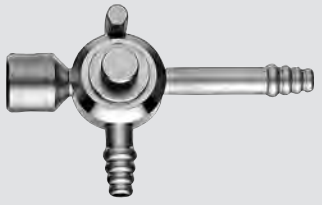
Endoscopic photos courtesy of Dr. Timothy C. McCarthy

Modular Handles for Suction and Irrigation

30803 **Handle,** without irrigation and suction connector, **autoclavable,** for use with 5 mm coagulating and dissecting electrodes with suction channel



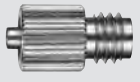
30804 **Handle with Trumpet Valve,** for irrigation or suction, **autoclavable,** for use with 5 mm suction-coagulation cannulas and 5 mm suction/irrigation tubes



30805 **Handle with Two-Way Stopcock,** for irrigation and suction, **autoclavable,** for use with 5 mm suction and irrigation tubes

69810 **Handle,** for irrigation and suction, **autoclavable,** for use with Tubing Set 69811, in conjunction with 5 mm suction and irrigation tubes and catheters any size with LUER-Lock connection

69811 **Instrument Tubing Set, autoclavable,** connects bottles to Handle 69810, for use with VETPUMP® II



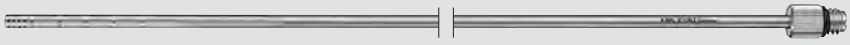
9896890 **LUER-Lock Connector,** for use with Handle 69810

1-12

Suction and irrigation system see chapter 11, UNITS

Suction and Irrigation Tubes

Size 5 mm

Length	Instrument
30 cm	
36 cm	
43 cm	

Distal End		Instrument
	37260 LH 37360 LH 37460 LH	**Suction/Irrigation Tube,** with lateral holes
	37260 SC 37360 SC 37460 SC	**Suction/Irrigation Tube**
	37260 CP 37360 CP 37460 CP	**Suction/Irrigation Tube,** for puncture and suction of cysts

Accessories for use with suction/irrigation tubes see chapter 11, UNITS

5-06

Coagulating Suction Tubes

for unipolar coagulation, size 5 mm

For use with handle

Length	Instrument
36 cm	

Distal End	Instrument	
	62370 SC	**Coagulating Suction Tube**
	62370 DW	**Coagulating Suction Tube,** W-shaped
	62370 DB	**Coagulating Suction Tube,** blunt
	62370 DL	**Coagulating Suction Tube,** L-shaped
	62370 DU	**Coagulating Suction Tube,** U-shaped

10-94$_2$

Accessories for use with suction/irrigation tubes see chapter 11, UNITS
High frequency cables and high frequency surgical units see chapter 11, UNITS

ARTHROSCOPES AND ACCESSORIES

Endoscopic photos courtesy of Dr. Jean-François Bardet

Canine Arthroscopy

Most articular interventions in humans and horses are performed by means of arthroscopy. Due to recent advances in instruments and technology, arthroscopy is gaining widespread acceptance in the articular surgery of dogs. The advantages of arthroscopy over conventional arthrotomy are improved access to joint structures, magnification of lesions, arthroscopic lavage, and a more rapid recovery of the animal patient. KARL STORZ has developed the instruments described here in conjunction with leading veterinarians over the course of several years.

Indications for Arthroscopy in the Canine Patient – Forelimb

Shoulder
- Osteochondral lesions (osteochondritis dissecans (OCD), articular fractures of the border of the glenoid)
- Subluxation of the shoulder
- Evaluation of shoulder luxations
- Biceps tendon lesions: tendinitis, partial or complete tears
- Tenosynovitis of the biceps tendon
- Synovial biopsies
- Arthroliths
- Septic arthritis
- Lesions of the glenoid labrum
- Tendinitis, rupture of the subscapular muscle tendon

Elbow
- Excision of the fragmented coronoid process
- OCD of the humeral condyle
- Treatment of arthritis of the elbow
- Treatment of the ununited anconeal process
- Removal of arthroliths
- Synovectomy
- Articular trauma
- Septic arthritis
- Elbow pain of unknown origin

Carpus
- Cartilage fractures
- Carpal fractures without displacement (distal radius, radial carpal bone)
- Carpal trauma
- Synovial biopsies
- Septic arthritis

Indications for Arthroscopy in the Canine Patient – Hind Limb

Hip
- Labral lesions
- Arthroliths
- Articular trauma
- Preoperative evaluation of hip dysplasia before Triple Pelvic Osteotomy (TPO)
- Postoperative evaluation of TPO
- Postoperative evaluation of treatment of hip luxations and fractures
- Degenerative joint disease
- Septic arthritis
- Osteochondromatosis
- Tear of the ligament of the femoral head

Stifle (Knee)
- Preoperative evaluation of torn cruciate ligaments
- The stable, osteoarthritic, non-inflamed stifle
- Lesions of the common digital extensor
- Lesions of the popliteal ligament
- Partial tear of the LCA
- Postoperative evaluation of cruciate ligament repair
- Differentiation between torn caudal cruciate ligament versus cranial cruciate ligament
- Cartilaginous lesions (fractures, OCD)
- Diagnosis of lesions associated with traumatic tears of the cruciate ligament
- Septic arthritis
- Synovial biopsies (polyarthritis, synovitis)
- Articular tumors

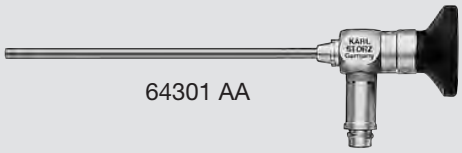
Tarsus
- Excision of OCD fragments of the talus
- Tarsal arthritis
- Tarsocrural instability

5-06

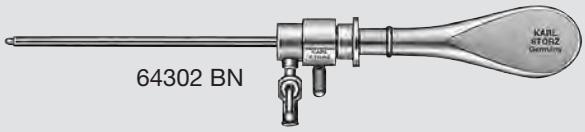
Slender Arthroscopes

for the arthroscopy of small joints, diameter 1.9 mm

KARL STORZ — ENDOSKOPE

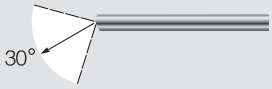


64301 AA



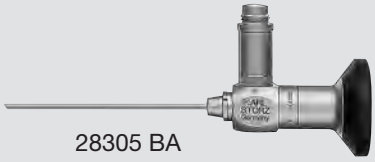
64302 BN

64301 AA **HOPKINS® Straight Forward Telescope 0°,** diameter 1.9 mm, length 10 cm, **autoclavable,** fiber optic light transmission incorporated, color code: green

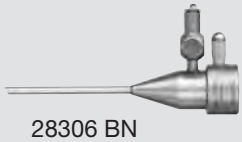


64301 BA **HOPKINS® Forward-Oblique Telescope 30°,** diameter 1.9 mm, length 10 cm, **autoclavable,** fiber optic light transmission incorporated, color code: red

64302 BN **High-Flow Arthroscope Sheath,** diameter 2.8 mm, working length 8.5 cm

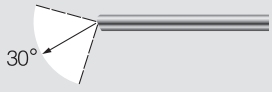


28305 BA



28306 BN

28306 S



NEW 28305 BA **HOPKINS® II Forward-Oblique Telescope 30°,** diameter 1.9 mm, length 6.5 cm, **autoclavable,** fiber optic light transmission incorporated, color code: red

NEW 28306 BN **High-Flow Arthroscope Sheath,** with traditional coupling mechanis, diameter 2.5 mm, working length 4 cm, one stopcock, **fixed,** for use with HOPKINS® II Telescope 30° 28305 BA and Obturators 28306 BS/BT color code: red

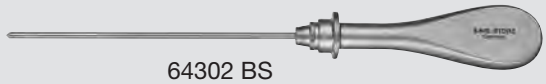
NEW 28306 S **High-Flow Arthroscope Sheath,** with snap-in coupling mechanism, diameter 2.5 mm, working length 4 cm, one stopcock, **fixed,** for use with HOPKINS® II Telescope 30° 28305 BA and Obturators 28306 BS/BT

1-12

Slender Arthroscopes

for the arthroscopy of small joints, diameter 1.9 mm

For use with Arthroscopy Sheath 64302 BN



64302 BS

64302 BT

64302 BS	**Obturator,** sharp
64302 BT	**Obturator,** blunt

For use with Arthroscopy Sheath 28306 BN and 28306 S

28306 BT

28306 BS

NEW	28306 BT	**Obturator,** blunt
NEW	28306 BS	**Obturator,** sharp

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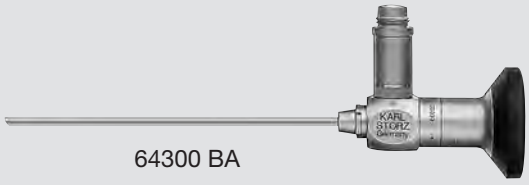
Slender Arthroscopes

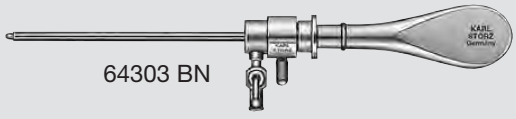
for the arthroscopy of small joints, diameter 2.4 mm

KARL STORZ — ENDOSKOPE

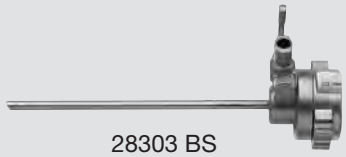
**Diameter 2.4 mm,
sheath diameter 3.2 mm,
working length 8.5 cm**



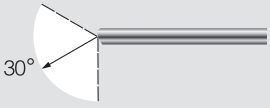
64300 BA



64303 BN



28303 BS



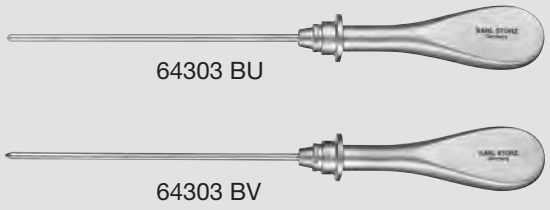
	64300 BA	**HOPKINS® Wide Angle Forward-Oblique Telescope 30°,** diameter 2.4 mm, length 10 cm, **autoclavable,** fiber optic light transmission incorporated, color code: red
	64303 BN	**High Flow Arthroscope Sheath,** diameter 3.2 mm, working length 8.5 cm, color code: red
NEW	28303 BS	**High-Flow Arthroscope Sheath,** with snap-in coupling mechanism, diameter 3.2 mm, working length 8.5 cm, one stopcock, **fixed,** for use with HOPKINS® II Telescope 30° 28300 BA, 64300 BA and Obturators 28302 BU/BV

1-12

Slender Arthroscopes

for the arthroscopy of small joints, diameter 2.4 mm

For use with Arthroscopy Sheath 64303 BN



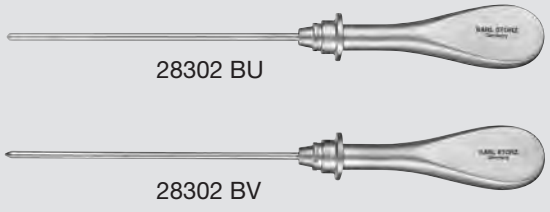
64303 BU

64303 BV

64303 BU **Obturator,** sharp

64303 BV **Obturator,** blunt

For use with Arthroscopy Sheath 28303 BS



28302 BU

28302 BV

NEW 28302 BU **Obturator,** sharp

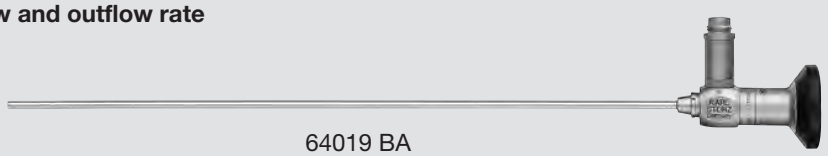
NEW 28302 BV **Obturator,** blunt

1-12

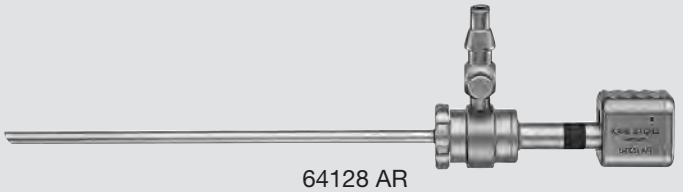
Slender Arthroscope

with HOPKINS® II Telescope, diameter 2.7 mm

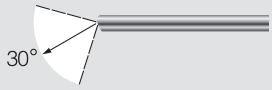
Sheath diameter 4 mm, working length 13 cm, with increased inflow and outflow rate



64019 BA



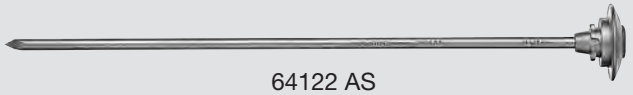
64128 AR



64019 BA **HOPKINS® II Forward-Oblique Telescope 30°,** diameter 2.7 mm, length 18 cm, **autoclavable,** fiber optic light transmission incorporated, color code: red

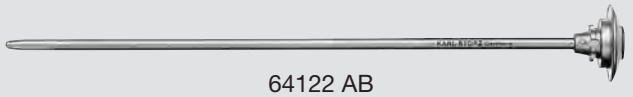
64128 AR **Arthroscope Sheath,** diameter 4 mm, working length 13 cm, with rotating stopcock, automatic lock, including LUER-Lock adaptor, with Stopcock 27502, color code: red

For use with Arthroscope Sheath 64128 AR



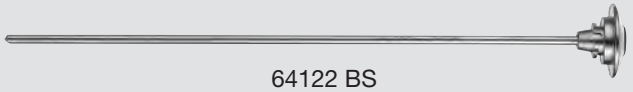
64122 AS

64122 AS **Obturator,** sharp



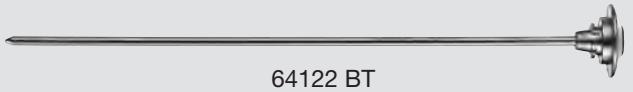
64122 AB

64122 AB **Obturator,** blunt



64122 BS

NEW 64122 BS **Obturator,** sharp, short tip



64122 BT

NEW 64122 BT **Obturator,** blunt, short tip

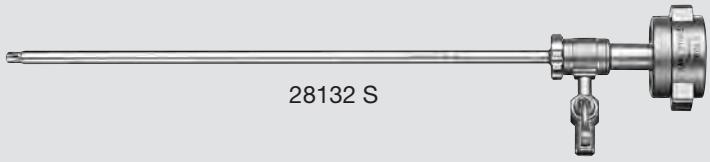
1-12

Arthroscope Sheath with Obturators

for HOPKINS® II Telescope, diameter 2.7 mm

KARL STORZ — ENDOSKOPE

Sheath diameter 4 mm, working length 13 cm, with increased inflow and outflow rate

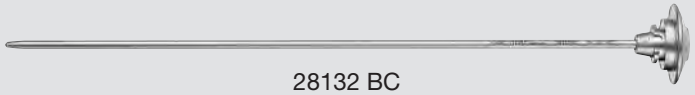


28132 S

NEW 28132 S **Arthroscope Sheath,** with snap-in coupling mechanism, diameter 4 mm, working length 13.5 cm, one stopcocks, **rotatable,** for use with HOPKINS® II telescopes 30°, 70° and Obturators 28132 BC/BT

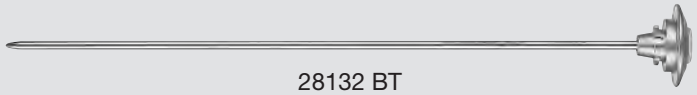
NEW 28132 DS **Same,** with two stopcocks

For use with Arthroscope Sheath 28132 S and 28132 DS



28132 BC

NEW 28132 BC **Obturator,** blunt, for use with Arthroscope Sheath 28132 S/DS



28132 BT

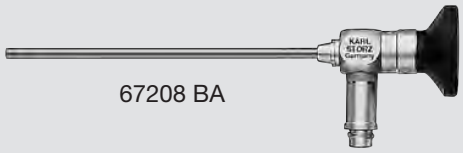
NEW 28132 BT **Obturator,** semisharp, for use with Arthroscope Sheaths 28132 CR/S/DS

1-12

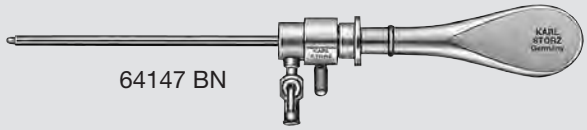
Slender Arthroscope

with HOPKINS® II Telescope, diameter 2.7 mm

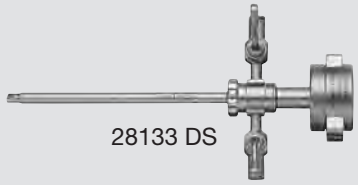
Sheath diameter 4 mm, working length 10 cm, with increased inflow and outflow rate



67208 BA



64147 BN



28133 DS

	67208 BA	**HOPKINS® Forward-Oblique Telescope 30°,** diameter 2.7 mm, length 11 cm, **autoclavable,** fiber optic light transmission incorporated, color code: red
	64147 BN	**Arthroscope Sheath,** diameter 4 mm, working length 10 cm, for use with HOPKINS® Telescope 30°, 67208 BA, color code: red
NEW	28133 DS	**Arthroscope Sheath,** with snap-in coupling mechanism, diameter 4 mm, working length 7.5 cm, two stopcocks, **rotatable,** for use with HOPKINS® II telescope 30° and Obturator 28133 BC

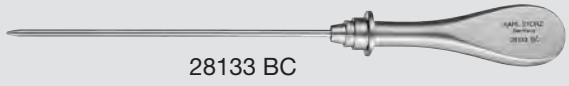
For use with Arthroscope Sheath 64147 BN

64147 BS

64147 BT

	64147 BS	**Obturator,** sharp
	64147 BT	**Obturator,** blunt

For use with Arthroscope Sheath 28133 DS



28133 BC

NEW	28133 BC	**Obturator,** blunt

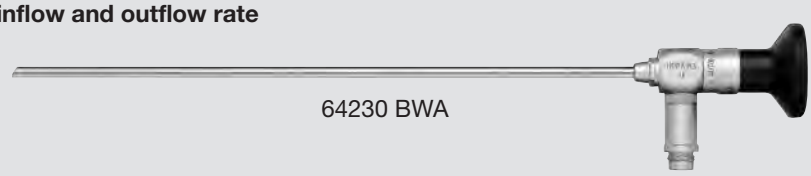
1-12

Arthroscope Recommended for Canine Stifle

HOPKINS® II Telescope, diameter 4 mm

KARL STORZ — ENDOSKOPE

Sheath diameter 5.5 mm, working length 13 cm, with increased inflow and outflow rate



64230 BWA

64124 AR

NEW 64230 BWA **HOPKINS® II Wide Angle Forward-Oblique Telescope 30°,** enlarged view, diameter 4 mm, length 18 cm, **autoclavable,** fiber optic light transmission incorporated, color code: red

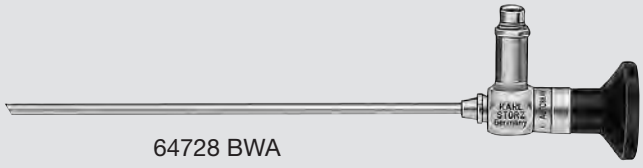
NEW 64124 AR **Arthroscope Sheath,** with one stopcock, rotating, for use with HOPKINS® II Telescopes 30°, diameter 5.5 mm, working length 13 cm color code: red

For use with Arthroscope Sheath 64124 AR

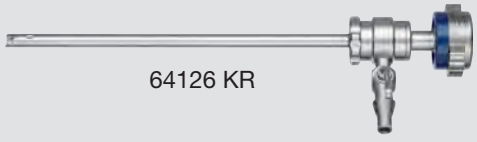
NEW 64127 BS **Obturator,** sharp, color code: red

NEW 64127 BT **Obturator,** blunt, color code: red

Short version, sheath diameter 5mm, working length 6.5 cm, with two stopcocks



64728 BWA



64126 KR

NEW 64728 BWA **HOPKINS® II Wide Angle Forward-Oblique Telescope 30°,** enlarged view, diameter 4 mm, length 12 cm, **autoclavable,** fiber optic light transmission incorporated, for use with Arthroscope Sheath 28129 RK and Elbow Arthroscopy Set 28128 S, color code: red

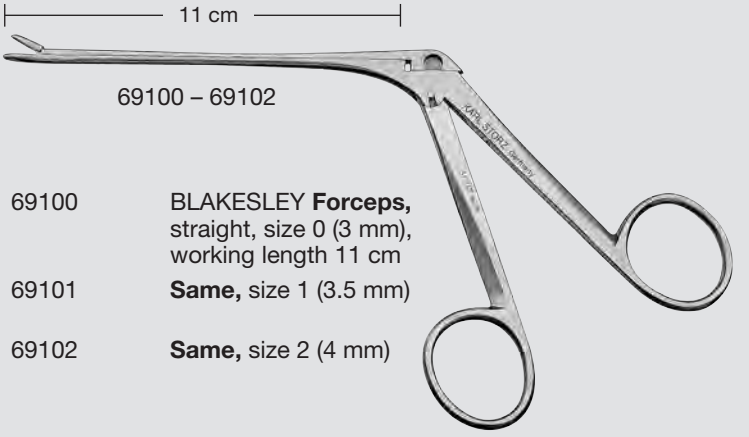
NEW 64126 KR **Arthroscope Sheath,** diameter 5.5 mm, working length 6.5 cm, with snap-in coupling mechanism, with one stopcock, **rotating,** for use with HOPKINS® II Telescope 30° and Obturator 64129 BT, diameter color code: blue

For use with High Flow Arthroscope Sheath 64126 KR

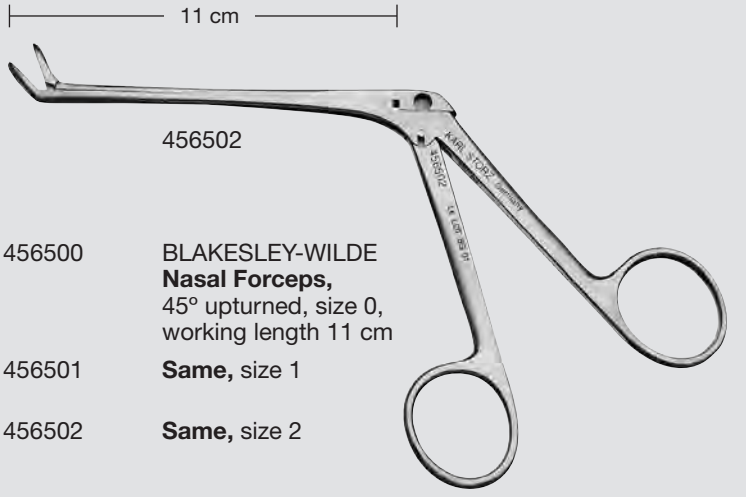
NEW 64129 BT **Obturator,** semisharp, for Arthroscope Sheath 64129 RK, color code: red

1-12

Working length 11 cm



69100	BLAKESLEY **Forceps,** straight, size 0 (3 mm), working length 11 cm
69101	**Same,** size 1 (3.5 mm)
69102	**Same,** size 2 (4 mm)



456500	BLAKESLEY-WILDE **Nasal Forceps,** 45° upturned, size 0, working length 11 cm
456501	**Same,** size 1
456502	**Same,** size 2

NEW 634824	STRÜMPEL **Forceps,** with oval, fenestrated, cupped jaws, straight, width 2.5 mm, working length 12.5 cm

5-06.1

ARTHROFORCE® III TAKE-APART® Instruments

dismantling

KARL STORZ — ENDOSKOPE

ARTHROFORCE® III TAKE-APART®

Punches, Scissors, Biopsy and Grasping Forceps – dismantling

ARTHROFORCE® III TAKE-APART® hand instruments feature a modular design. These instruments can be dismantled into a working attachment and a handle so that various working attachments can be exchanged.

The two-part design of the ARTHROFORCE® III TAKE-APART® instrument simplifies cleaning and sterilization. This reduces the risk of blood and tissue debris becoming trapped and prolongs instrument life. The specially designed cleaning adaptor enables cleaning during the main sterilization process.

The instruments are well balanced and precision-ground. The agile, flat yet robust cutting edge construction allows easy access in narrow areas.

ARTHROFORCE® III TAKE-APART® offers the following benefits:

- **Instruments can be quickly and easily dismantled and reassembled**
- **Interchangeable working attachments provide perfect function and sharp cutting area**
- **Few handles necessary**
- **No hidden spaces that can trap blood and tissue debris**
- **Improved instrument cleaning**
- **Fully autoclavable**
- **Ergonomic design**

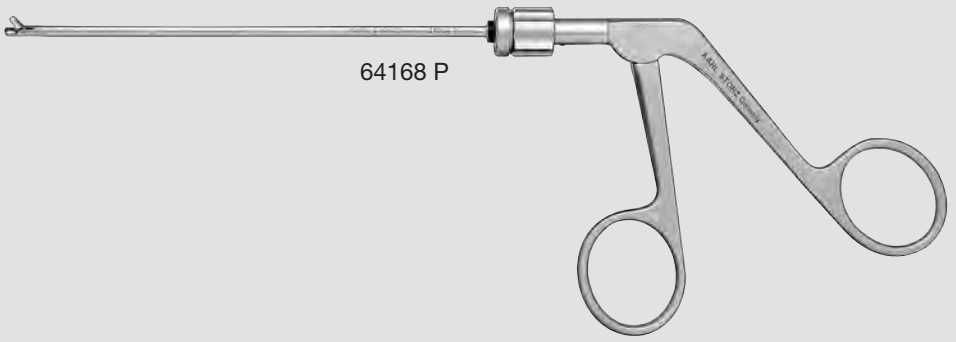
1-12

ARTHROFORCE® III TAKE-APART® Forceps

dismantling

KARL STORZ — ENDOSKOPE

Sheath diameter 3.5 mm, working length 13 cm



64168 P **ARTHROFORCE® III TAKE-APART® Forceps,**
straight, sheath diameter 3.5 mm, working length 13 cm
including:
Handle, without ratchet
Working Attachment

64166 A BLAKESLEY **ARTHROFORCE® III TAKE-APART® Forceps,**
straight, sheath diameter 3.5 mm, working length 13 cm
including:
Handle, without ratchet
Working Attachment

NEW 64168 B **ARTHROFORCE® III TAKE-APART® Scissors,**
hook-shaped, straight, sheath diameter 3.5 mm,
working length 13 cm
including:
Handle, without ratchet
Working Attachment

1-12

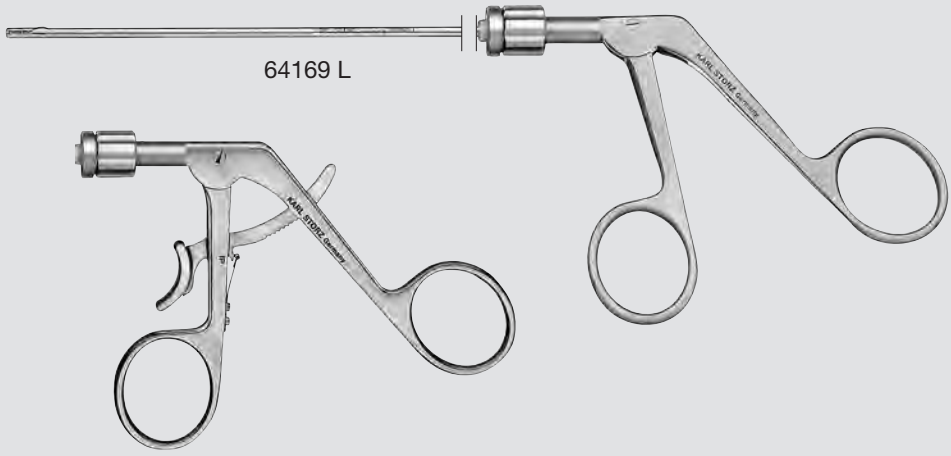
Components/Spare Parts see chapter 14

ARTHROFORCE® III
TAKE-APART® Grasping Forceps

dismantling

KARL STORZ — ENDOSKOPE

Sheath diameter 3.5 mm, working length 13 cm



64169 L — **ARTHROFORCE® III TAKE-APART® Grasping Forceps,** with hook, sheath diameter 3.5 mm, working length 13 cm
including:
Handle, without ratchet
Working Attachment

64169 LS — **ARTHROFORCE® III TAKE-APART® Grasping Forceps,** with hook, sheath diameter 3.5 mm, working length 13 cm
including:
Handle, with ratchet
Working Attachment

64169 G — **ARTHROFORCE® III TAKE-APART® Grasping Forceps,** for foreign bodies, without hook, sheath diameter 3.5 mm, working length 13 cm
including:
Handle, without ratchet
Working Attachment

64169 GS — **ARTHROFORCE® III TAKE-APART® Grasping Forceps,** without hook, sheath diameter 3.5 mm, working length 13 cm
including:
Handle, with ratchet
Working Attachment

64166 LL — **Cleaning Adaptor,** for **ARTHROFORCE® TAKE-APART®** instruments

2-96₂

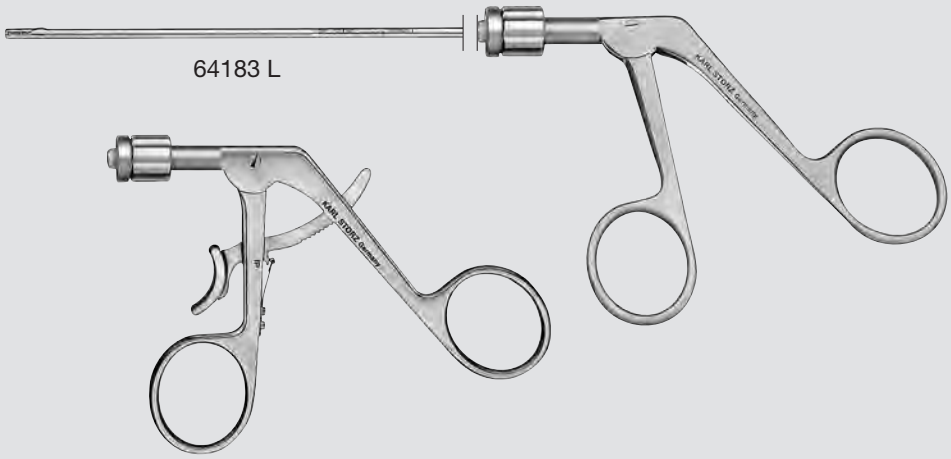
Components/Spare Parts see chapter 14

ARTHROFORCE® III
TAKE-APART® Grasping Forceps

dismantling

KARL STORZ — ENDOSKOPE

Sheath diameter 2.3 mm, working length 10 cm

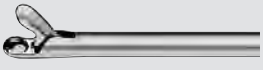


64183 L — **ARTHROFORCE® III TAKE-APART® Grasping Forceps,** with hook, sheath diameter 2.3 mm, working length 10 cm
including:
Handle, without ratchet
Working Attachment

64183 LS — **ARTHROFORCE® III TAKE-APART® Grasping Forceps,** with hook, sheath diameter 2.3 mm, working length 10 cm
including:
Handle, with ratchet
Working Attachment

64183 G — **ARTHROFORCE® III TAKE-APART® Grasping Forceps,** for arthroliths, without hook, sheath diameter 2.3 mm, working length 10 cm
including:
Handle, without ratchet
Working Attachment

64183 GS — **ARTHROFORCE® III TAKE-APART® Grasping Forceps,** without hook, sheath diameter 2.3 mm, working length 10 cm
including:
Handle, with ratchet
Working Attachment



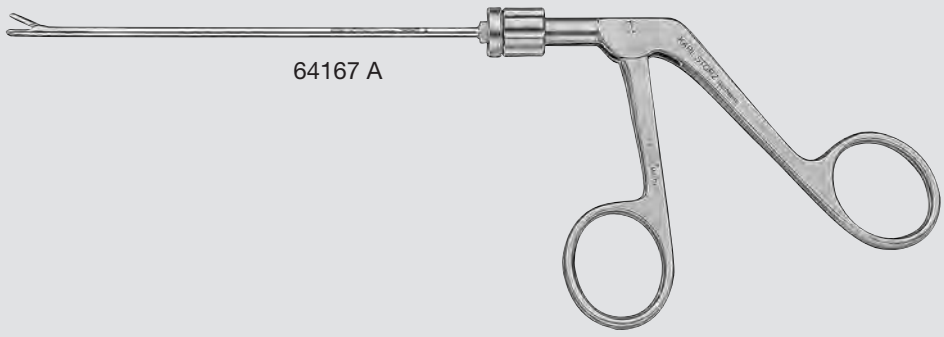
64183 P — **ARTHROFORCE® III TAKE-APART® Forceps,** straight, sheath diameter 2.3 mm, working length 10 cm
including:
Handle, without ratchet
Working Insert

64166 LL — **Cleaning Adaptor,** for **ARTHROFORCE® TAKE-APART®** instruments

10-002

Components/Spare Parts see chapter 14

Cutting width 1.4 mm, sheath diameter 2.8 mm, working length 13 cm

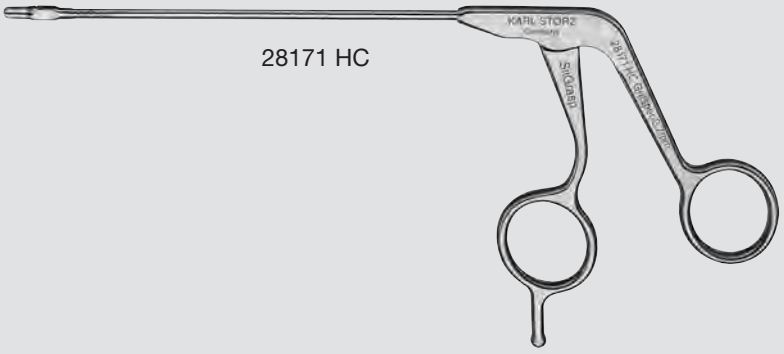


64167 A — BLAKESLEY **ARTHROFORCE® III TAKE-APART® Forceps,** straight, sheath diameter 2.8 mm, working length 13 cm
including:
Handle, without ratchet
Working Attachment

64166 LL — **Cleaning Adaptor,** for **ARTHROFORCE® TAKE-APART®** instruments

Components/Spare Parts see chapter 14

SilGrasp® Grasping Forceps



28171 HC

NEW 28171 HC

SilGrasp® Grasping Forceps, spoon-shaped jaws, jaw width 2.7 mm, straight jaws, sheath diameter 3 mm, straight, working length 13 cm

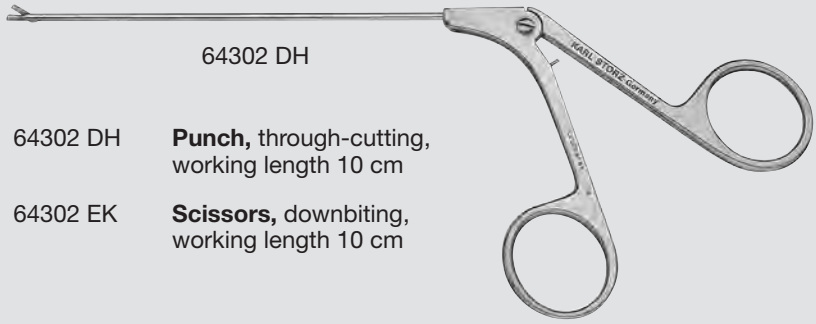
NEW 28171 AG

SilGrasp® Alligator Grasping Forceps, surgical, straight jaws, sheath diameter 3 mm, straight, working length 13 cm

1-12

Operating Instruments for Arthroscopy

Diameter 2 mm



64302 DH

64302 DH **Punch,** through-cutting, working length 10 cm

64302 EK **Scissors,** downbiting, working length 10 cm

64302 EO **Same,** upbiting

64302 L **Forceps with Double Spoon,** working length 10 cm

64302 U **Grasping Forceps,** working length 10 cm

64302 M/N

64302 M **Sickle Knife,** bayonet-shaped, diameter 1.5 mm, working length 7.5 cm

64302 N **Sickle Knife,** straight, diameter 1.5 mm, working length 7.5 cm

64302 S

64302 S **Palpation Hook,** graduated, diameter 1.5 mm, working length 7.5 cm, length of hook 1 mm

64302 W

64302 W **Changing Rod,** length 15 cm, for use with sheaths and trocars

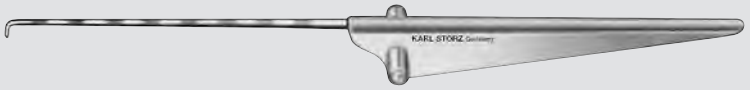
64302 X

64302 X **Trocar,** diameter 2.5 mm, for use with Instruments 64302 L/DH/EK/U/M/N/S

64302 XS **Obturator,** sharp, for Trocar 64302 X

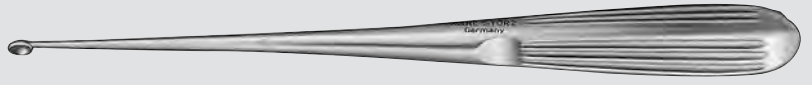
64302 XT **Same,** blunt

10-00



64145 S

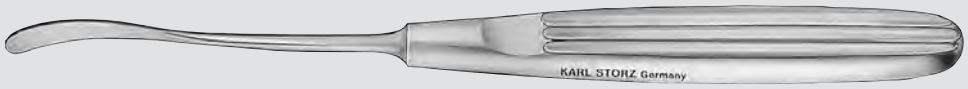
	64145 S	**Hook and Retractor,** graduated, diameter 3.5 mm, length of hook 2 mm, working length 8 cm
	28145 SN	**Probe,** graduated, length of hook 2 mm, diameter 1 mm, working length 4 cm
	64146 M	**Knife,** curved, pointed, cuts both sides, width 3.5 mm
	64146 N	**Knife,** sickle-shaped
	64146 F	**Knife,** round, width 3.5 mm
	64146 L	**Knife,** hooked, width 3.5 mm
	64728 CF	**Micro Fracturing Chisel,** straight, working length 9 cm
	64728 CG	**Micro Fracturing Chisel,** angled, 30°, working length 9 cm
	64728 CH	**Micro Fracturing Chisel,** angled, 70°, working length 9 cm
	64146 K	**Curette,** spoon-shaped, round, straight, diameter 2.3 mm, for use with Trocar 64183 X
	NEW 28147 R	**Knife,** retractable, backward cutting, with exchangeable knife attachment, diameter 3.5 mm, working length 9 cm



64611

	64611	**Curette,** size 0, length 21 cm
	64620	**Same,** size 00
	64630	**Same,** size 000
	64640	**Same,** size 0000

10-00₂



64906

64906 **Elevator,** sharp, curved, width 6 mm

64800

64800 **Elevator,** sharp, slight curved, width 4.5 mm

64100

64100 **Osteotome,** flat, graduated, curved, width 6 mm, length 18.5 cm

64104

64104 **Osteotome,** flat, cuts both sides, width 4 mm, length 19 cm

64527 S

64527 S **Hand Burr,** with sleeve, diameter 2.7 mm, length 12 cm

including:

Hand Burr

Hand Burr Sleeve

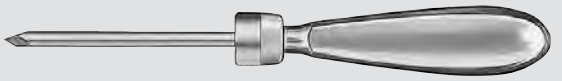
64535 S **Same,** diameter 3.5 mm

Components/Spare Parts see chapter 14

5-06

Instrument Cannulas

For straight operating instruments up to diameter 4.8 mm



64146 X/XS

64146 XT

64146 X **Trocar,** diameter 5.5 mm

For use with Trocar 64146 X

64146 XS **Obturator,** sharp

64146 XT **Obturator,** blunt

For straight operating instruments up to diameter 3.5 mm

64169 X

64169 X **Trocar,** diameter 4.5 mm

For use with Trocar 64169 X

64169 XS **Obturator,** sharp

64169 XT **Obturator,** blunt

For straight operating instruments up to diameter 2.8 mm

64183 X

64183 X **Trocar,** diameter 3.5 mm

For use with Trocar 64183 X

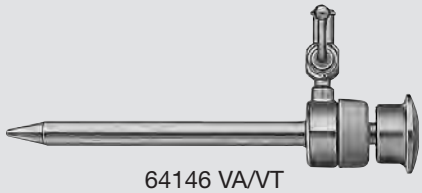
64183 XS **Obturator,** sharp

64183 XT **Obturator,** blunt

1-12

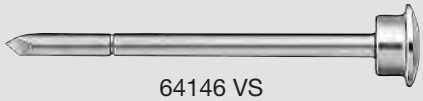
Cannulas, Changing Rods

Operating Cannula



64146 VA/VT

64146 VA **Operating Cannula,** with stopcock, inner diameter 5.6 mm, outer diameter 6 mm, length 7.5 cm, for use with arthroscope sheaths, shavers, operating instruments



64146 VS

64146 VS **Obturator,** sharp

64146 VT **Obturator,** blunt

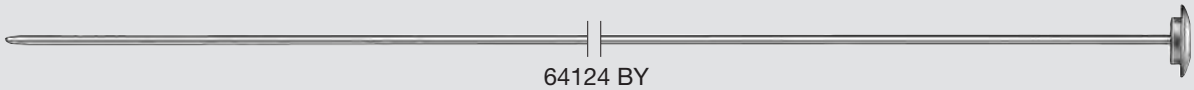
Changing Rod Systems

64124 BX

64124 BX **Changing Rod,** length 23 cm, for use with arthroscope sheaths with inner diameter 4 mm

64124 BZ **Same,** for use with arthroscope sheaths with inner diameter 2.8 mm

WISSINGER **Rods, for large joints**



64124 BY

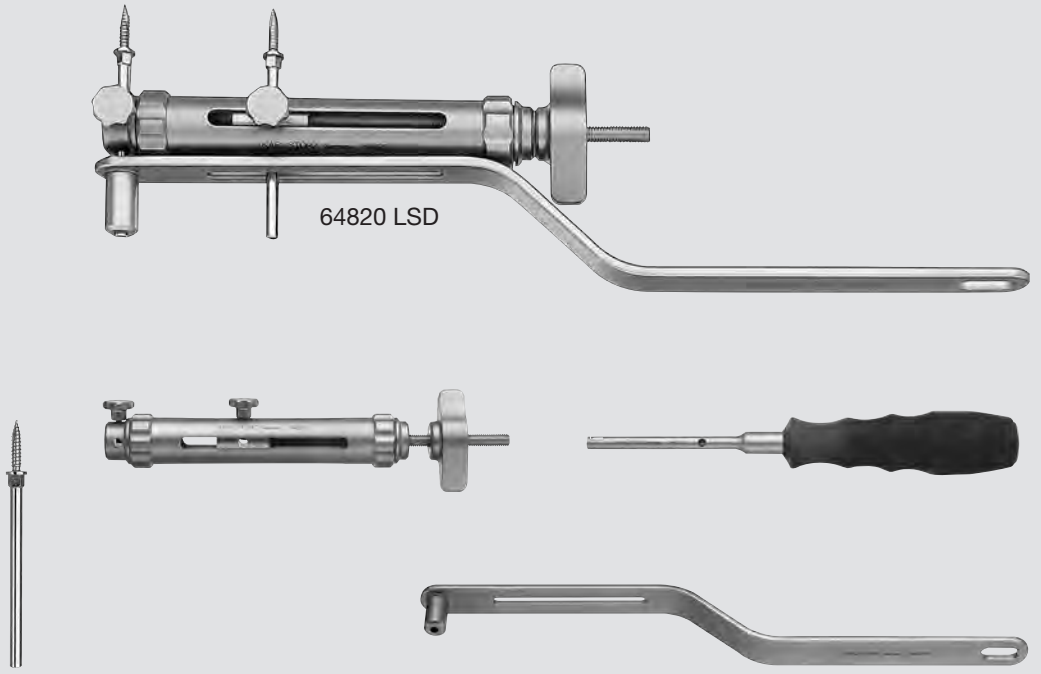
64124 BY **Rod,** with pressure plate, length 35 cm, for use with arthroscope sheaths with inner diameter 4 mm

64124 BW **Same,** for use with arthroscope sheaths with inner diameter 2.8 mm

1-12

The changing rod can be used in arthroscopy to localize the anterior portal to the joint by means of the arthroscope sheath. The rod is introduced through the arthroscope sheath and advanced through the joint. A second arthroscope sheath can then be placed over the rod.

LEIPZIG **Stifle Distractor** NEW



64820 LSD	LEIPZIG **Stifle Distractor** including: **Distractor** **Fixation Screws,** package of 6 **Lever Arm** **Screwdriver**

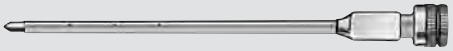
1-12

Components/Spare Parts see chapter 14

Egress Cannulas

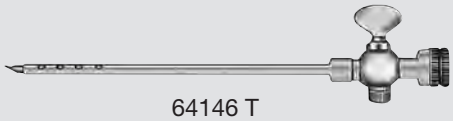
64146 R

64146 R **Egress Cannula,** LUER-Lock, diameter 2.2 mm, length 7 cm



64146 Q

64146 Q **Egress Cannula,** with Sharp Obturator 64146 QO, LUER-Lock, diameter 3.2 mm, length 7 cm

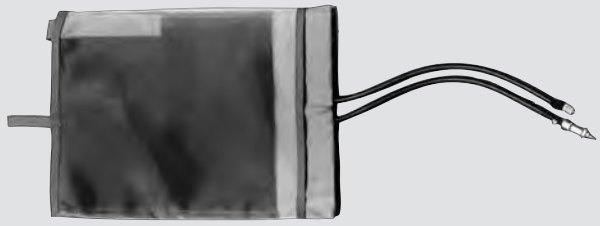


64146 T

64146 T **Egress Cannula,** with Sharp Obturator 64146 QO, LUER-Lock, with stopcock, diameter 3.2 mm, length 7 cm

28146 QB **Obturator,** blunt, for use with Egress Cannula 64146 Q

1-12



26 3100 38
26 3101 38

26 3100 38 **Pressure Infusion Cuff,** 1.5 l, max. 400 mmHg, sterilizable

26 3101 38 **Same,** 3 l

20 3100 91

20 3100 91 **Manometer,** for use with Pressure Cuffs **26** 3100 38 and **26** 3101 38

20 3100 90

20 3100 90 **Rubber Foot Pump,** with silicone tubing, length 200 cm, with pressure relief valve, fits Pressure Cuffs **26** 3100 38 and **26** 3101 38

20 3100 41

20 3100 41 **Silicone Tubing Set,** sterilizable, length 250 cm, for use with Pressure Cuffs **26** 3100 38 and **26** 3101 38 with Foot Pump **20** 3100 90

1-12

CYSTOSCOPY AND TRANSCERVICAL INSEMINATION

Endoscopic photos courtesy of Dr. Timothy C. McCarthy

Uroendoscopy is increasingly performed by veterinary practitioners at all levels. Besides radiographic imaging, endoscopy is the most useful method of diagnosing urinary tract pathology. It is easy to perform and offers several therapeutic modalities as well as diagnostic, which are much less invasive than conventional cystotomy.

Rigid cystoscopes, available in various sizes, are introduced into the bitch transurethrally. In male dogs, a rigid cystoscope must be introduced into the bladder either transabdominally, or through a perineal urethrotomy. Fluid distension of the bladder and urethra are maintained by gravity flow of sterile saline or ringers lactate, from a bag that is suspended above the patient.

The endoscopist controls the degree of distension with the inflow and outflow valves on the cystoscope sheath.

The superior visualization facilitates procurement of biopsies, as well as the introduction of lasers, stone baskets and other instrumentation through the sheath. In cases of neoplasia, recurring urolithiasis and ectopic ureters, uroendoscopy constitutes the least traumatic therapeutic intervention available.

For removal of large stones, or to gain access to the bladder in male dogs, a rigid cystoscope can be introduced onto the bladder directly though the abdominal wall or with a laparoscope-assisted approach.

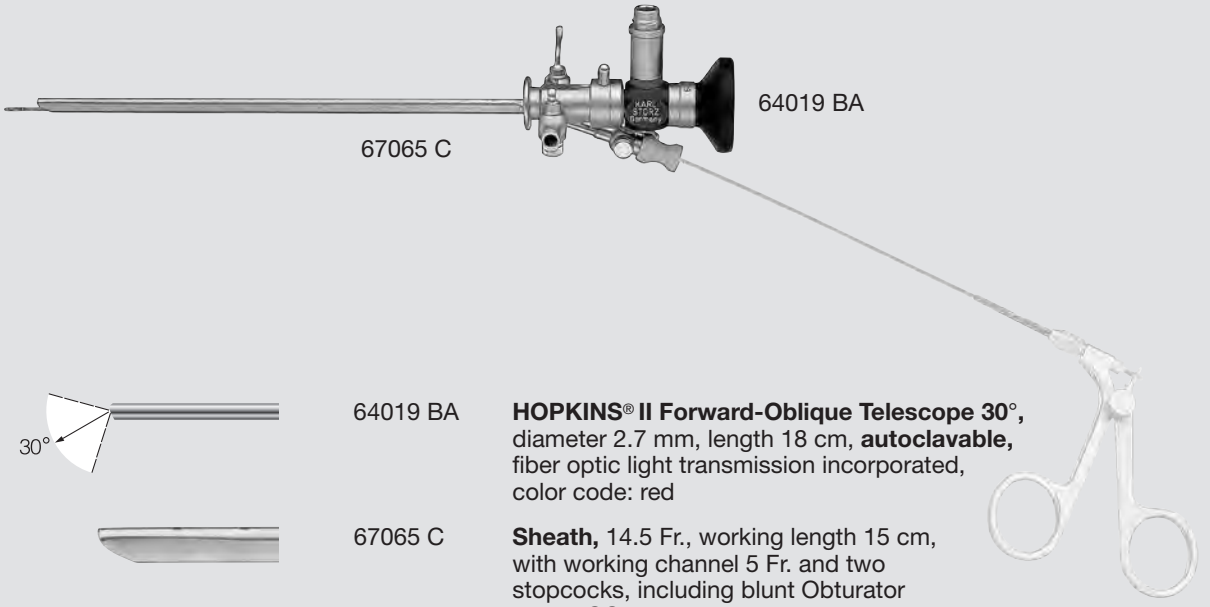
Indications for Cystoscopy:

- **Chronic cystitis**
- **Pollakiuria**
- **Hematuria**
- **Stranguria and tenesmus**
- **Stones in the bladder and urethra**
- **Neoplastic cells in the urinary sediment**
- **Abnormal radiological findings**
- **Incontinence**
- **Trauma**

3-95$_1$

HOPKINS® II Telescopes and Cystoscope Sheaths

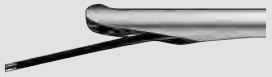
HOPKINS® II Telescopes for use with sheaths 9.5 – 14.5 Fr.



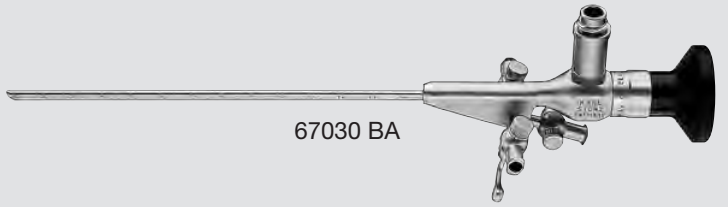
64019 BA **HOPKINS® II Forward-Oblique Telescope 30°,** diameter 2.7 mm, length 18 cm, **autoclavable,** fiber optic light transmission incorporated, color code: red

67065 C **Sheath,** 14.5 Fr., working length 15 cm, with working channel 5 Fr. and two stopcocks, including blunt Obturator 67065 CO

64017 BA **HOPKINS® II Forward-Oblique Telescope 30°,** diameter 1.9/2.1 mm, length 19 cm, **autoclavable** fiber optic light transmission incorporated, color code: red



67031 E **Cystoscope-Urethroscope Sheath,** 10 Fr., working length 14 cm, with working channel 3 Fr., with Obturator 63031 EO and 2 LUER-Lock cones, color code: white-blue



67030 BA **Operating Telescope 30º,** 9.5 Fr., working length 14 cm, **autoclavable,** fiber optic light transmission incorporated, with working channel 3 Fr. and 2 LUER-Lock cones color code: red

10-002

Components/Spare Parts see chapter 14

Cysto-Urethroscope

8 Fr.

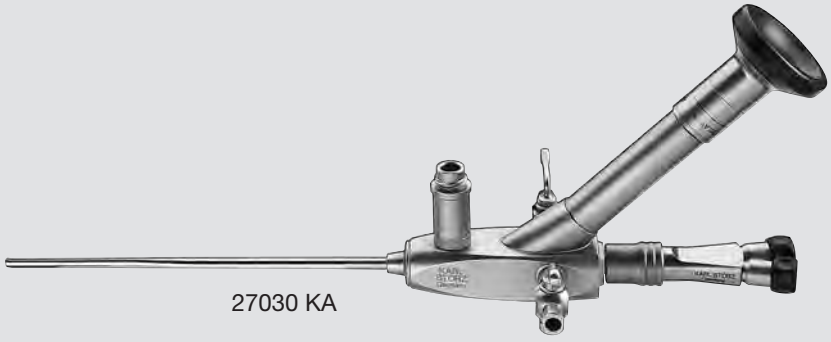
KARL STORZ — ENDOSKOPE

Special Features

- **Atraumatic distal sheath with rounded tip**
- **Minimal shaft diameter**
- **Maximum inflow due to large central instrument channel with 2 lateral irrigation ports**
- **The large working channel allows the use of rigid instruments and probes up to 4 Fr.**
- **2 right angled lateral irrigation connections**
- **autoclavable**

Specifications

Instrument sheath:	**8 Fr., one-step 8 – 12 Fr.**
Central channel:	**5 Fr. for use with instruments up to 4 Fr.**
Telescope:	**KARL STORZ Fiberoptic system, direction of view 6°**
Length:	**13 cm**
Eyepiece:	**angled, rigid**



27030 KA

NEW 27030 KA **Cysto-Urethroscope,** 8 Fr., 6°, 1 step, 8 – 11 Fr., length 13 cm, **autoclavable,** with angled eyepiece, fiber optic light transmission incorporated, with 2 lateral irrigation ports and 1 working channel, 5 Fr. for operating instruments 4 Fr.

Following accessories are included:

27001 G	**Instrument Port with Sealing System and Quick Release Lock,** 1 channel
27550 N	**Seal,** for working channel, package of 10, single use recommended
27500	**LUER-Lock Tube Connector,** male, tube diameter 9 mm
27502	**LUER-Lock Tube Connector,** with stopcock, dismantling
27001 RA	**Cleaning Adaptor**
27001 E	**Insertion Aid,** for guide wires in ureterorenoscopy

Optional accessory:

NEW 27001 GF	**Instrument Port with Sealing System and Quick Release Lock,** 2 channels
NEW 27001 GH	**Instrument Port with Sealing System and Quick Release Lock,** 2 channels, 1 straight channel, 1 lateral channel
NEW 39501 XK	**Wire Tray for Cleaning, Sterilization and Storage** of **pediatric uretero-renoscopes** and compact miniature hysteroscopes with a maximum working length of 27 cm, including cleaning adaptor for washer-disinfector, with lid, spare parts basket 39501 XS and silicone telescope holders, external dimensions (w x d x h): 460 x 150 x 80 mm, for use with instruments 270xx and 260x2 K with up to 27 cm working length

Components/Spare Parts see chapter 14

1-12

Cysto-Urethroscope

9.5 Fr.

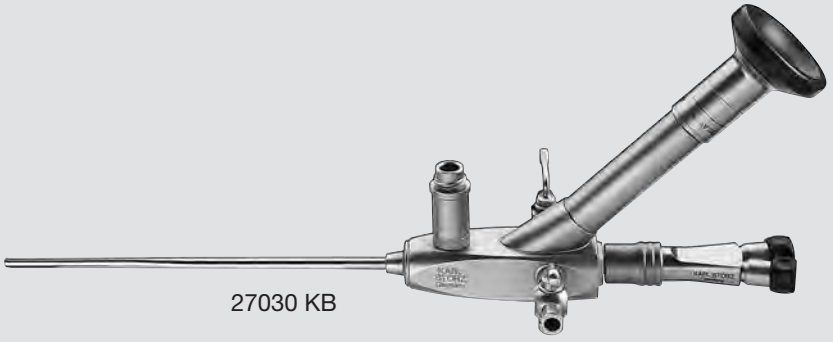
KARL STORZ — ENDOSKOPE

Special Features

- **Atraumatic distal sheath with rounded tip**
- **Minimal shaft diameter**
- **Maximum inflow due to large central instrument channel with 2 lateral irrigation connections**
- **The large working channel allows the use of rigid instruments and probes up to 5 Fr.**
- **2 right angled lateral irrigation connections**

Specifications

Instrument sheath:	**9.5 Fr., one-step 9.5 – 12 Fr.**
Central channel:	**6 Fr. for use with instruments up to 5 Fr.**
Telescope:	**KARL STORZ Fiberoptic system, direction of view 6º**
Length:	**13 cm**
Eyepiece:	**angled, rigid**



27030 KB

NEW 27030 KB **Cysto-Urethroscope,** 9.5 Fr., 6º, 1 step, 9.5 – 11 Fr., length 13 cm, **autoclavable,** with angled eyepiece, fiber optic light transmission incorporated, with 2 lateral irrigation ports and 1 working channel, 6 Fr. for operating instruments 5 Fr.

Following accessories are included:

27001 G	**Instrument Port with Sealing System and Quick Release Lock,** 1 channel
27550 N	**Seal,** for working channel, package of 10, single use recommended
27500	**LUER-Lock Tube Connector,** male, tube diameter 9 mm
27502	**LUER-Lock Tube Connector,** with stopcock, dismantling
27001 RA	**Cleaning Adaptor**
27001 E	**Insertion Aid,** for guide wires in ureterorenoscopy

Optional accessory:

NEW 27001 GF **Instrument Port with Sealing System and Quick Release Lock,** 2 channels

NEW 27001 GH **Instrument Port with Sealing System and Quick Release Lock,** 2 channels, 1 straight channel, 1 lateral channel

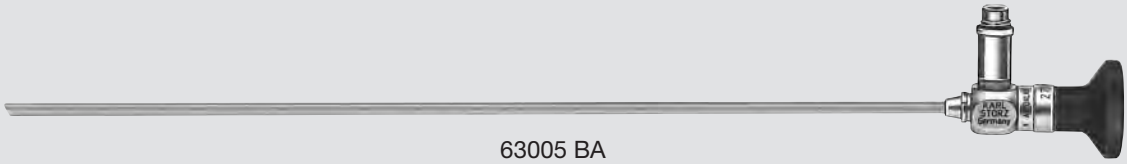
NEW 39501 XK **Wire Tray for Cleaning, Sterilization and Storage** of **pediatric ureteroscopes** and compact miniature hysteroscopes with a maximum working length of 27 cm, including cleaning adaptor for washer-disinfector, with lid, spare parts basket 39501 XS and silicone telescope holders, external dimensions (w x d x h): 460 x 150 x 80 mm, for use with instruments 270xx and 260x2 K with up to 27 cm working length

1-12

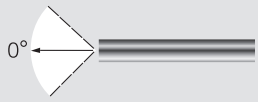
Components/Spare Parts see chapter 14

HOPKINS® II Telescopes

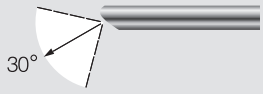
Diameter 4 mm, for use with sheaths 17 – 25 Fr.
and Miniature Straight Forward Telescope, diameter 1 mm



63005 BA

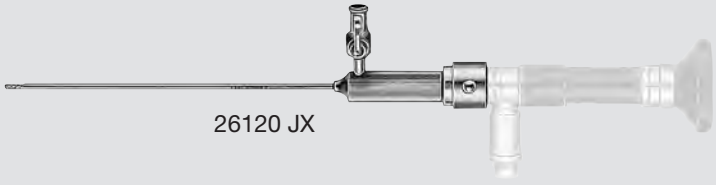


63005 AA **HOPKINS® II Straight Forward Telescope 0°,**
enlarged view, diameter 4 mm, length 30 cm,
autoclavable, fiber optic light transmission incorporated,
color code: green



63005 BA **HOPKINS® II Forward-Oblique Telescope 30°,**
enlarged view, diameter 4 mm, length 30 cm,
autoclavable, fiber optic light transmission incorporated,
color code: red

For cystoscopy of the male cat



26120 JX

62512

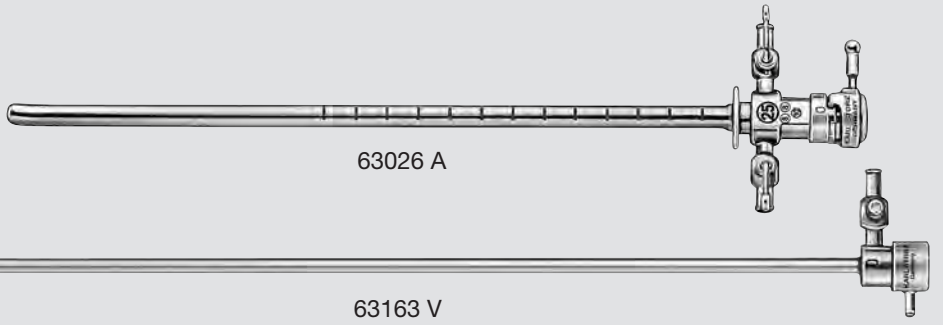
26120 JX **Optical** VERESS **Pneumoperitoneum Needle,**
with spring-loaded blunt inner cannula and insufflation stopcock, diameter 2.1 mm,
length 17.5 cm, with telescope lock,
for use with Miniature Telescope 62512

62512 **Miniature Straight Forward Telescope 0°,**
semi-rigid, diameter 1 mm, length 20 cm,
fiber optic light transmission incorporated,
color code: green

10-00₂

Flexible Endoscopes for urethro-cystoscopy of male dogs see chapter 3

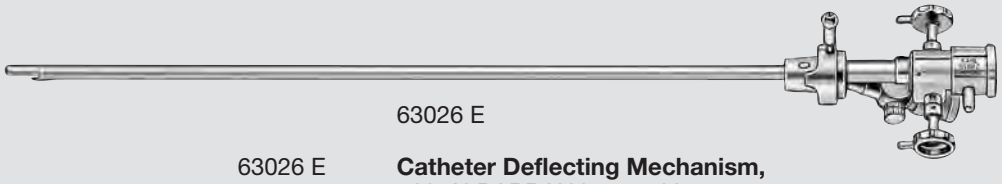
Cystoscope Sheaths, Deflecting Mechanism



63026 A

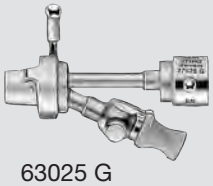
63163 V

63026 A	**Cystoscope-Urethroscope Sheath,** 25 Fr., working length 22 cm, with Obturator 63026 AO and 2 LUER-Lock cones, color code: white
63026 B	**Same,** 22 Fr., with Obturator 63026 BO, color code: blue
27026 C	**Same,** 20 Fr., with Obturator 27026 CO, color code: red
27026 D	**Same,** 19 Fr., with Obturator 27026 DO, color code: green
63026 U	**Same,** 17 Fr., with Obturator 63026 UO, color code: yellow
63163 V	**Examination Sheath,** with stopcock, diameter 5 mm, working length 28 cm



63026 E

63026 E	**Catheter Deflecting Mechanism,** with ALBARRAN lever, with 1 lockable channel, with ratchet



63025 G

63025 G	**Telescope Bridge,** for use with Telescope 63005 BA and Sheaths 63026 with 1 lockable channel

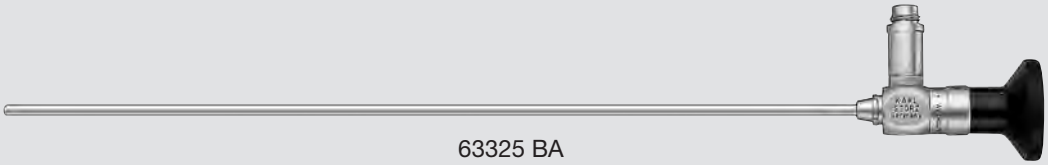
Sheath with Obturator	**Catheter Capacities** Deflecting Mechanism 63026 E	**Catheter Capacities** Telescope Bridge 63025 G	**Color Code**
63026 A, 25 Fr.	10 Fr.	12 Fr.	white
63026 B, 22 Fr.	9 Fr.	10 Fr.	blue
27026 C, 20 Fr.	6 Fr.	7 Fr.	red
27026 D, 19 Fr.	5 Fr.	6 Fr.	green
63026 U, 17 Fr.	–	5 Fr.	yellow

Components/Spare Parts see chapter 14

10-001

Extra Long Cystoscope-Urethroscopes

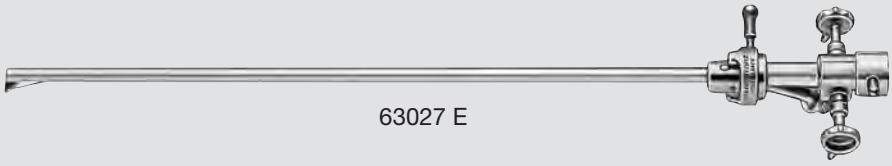
for urethro-cystoscopy and artificial insemination in bitches, working length 29 cm



63325 BA

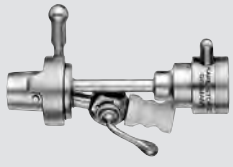
63027 KL/UL

63325 BA	**HOPKINS® Forward-Oblique Telescope 30°,** diameter 3.5 mm, working length 36 cm, **autoclavable,** fiber optic light transmission incorporated, color code: red
63027 KL	**Cystoscope-Urethroscope Sheath,** working length 29 cm, 22 Fr., accepts instruments and catheters up to 9 Fr., with Obturator 63027 KO and 2 LUER-Lock cones, color code: blue
63027 UL	**Cystoscope-Urethroscope Sheath,** working length 29 cm, 17 Fr., accepts instruments and catheters up to 6 Fr., with Obturator 63027 UO and 2 LUER-Lock cones, color code: yellow



63027 E

63027 E	**Catheter Deflecting Mechanism,** with ALBARRAN lever, with 1 lockable channel, with ratchet, only for use with 63027 KL and with instruments 9 Fr.



63027 NL

63027 NL	**Telescope Bridge,** with 1 lockable channel, for use with Telescope 63325 and Sheaths 63027

10-002

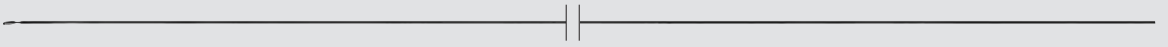
Please note:
Extra Long Cystoscope-Urethroscope Sheaths series 63027 require instruments 40 cm or longer.
Components/Spare Parts see chapter 14

TCI Endoscope

for transcervical insemination and hysteroscopy in dogs, working length 43 cm

63002 LA

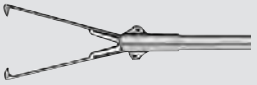
NEW 63002 LA **Minitube TCI Endoscope,** 9.5 Fr., 6°, 1 step, conical, 9.5 – 13.5 Fr., length 43 cm, **autoclavable,** with angled eyepiece, fiber optic light transmission incorporated, 2 LUER-Lock adaptors and 1 working channel 6 Fr., for use with instruments up to 5 Fr., with Instrument Port 27001 GK, Seal 27550 N and Cleaning Adaptor 27001



63002 MK

NEW 63002 MK **Minitube TCI Catheter,** 5 Fr., length 70 cm

NEW 27425 F **Grasping Forceps,** for stone fragments, double action jaws, 5 Fr., length 60 cm color code: red



NEW 27425 P **Grasping Forceps,** for larger stones and fragments, double action jaws, 5 Fr., length 60 cm, color code: red

NEW 27425 Z **Biopsy Forceps,** double action jaws, 5 Fr., length 60 cm, color code: red

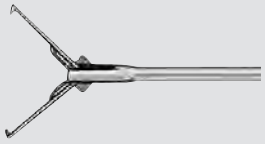
1-12

Components/Spare Parts see chapter 14

For use with Cystoscope Sheaths 67065 C, 63026 U, 27026 D, 63027 UL and Operating Cystoscope 27030 KB

67161 T — **Grasping Forceps,** flexible, double action jaws, 5 Fr., length 34 cm

67161 Z — **Biopsy Forceps,** flexible, oval, double action jaws, 5 Fr., length 34 cm



NEW 27095 P — **Grasping Forceps,** for larger stone fragments, double action jaws, 5 Fr., length 30 cm

For use with Cystoscope Sheaths 63026 U, 27026 D and 63027 UL

27034 FK — **Forceps for Foreign Body Removal,** flexible, double action jaws, 5 Fr., length 40 cm

27034 FL — **Biopsy Forceps,** flexible, double action jaws, 5 Fr., length 40 cm

67023 VK — **Stone Basket,** flexible, 5 Fr., length 60 cm
including:
3-Ring Handle
Basket
Coil

For use with Cystoscope Sheaths 63026 A – C, 63027 KL and 63027 NL

63175 A — **Grasping Forceps,** for removing foreign bodies, double-action jaws, 7 Fr., length 40 cm

63177 A — **Biopsy Forceps,** double action jaws, 7 Fr., length 40 cm, for use with Sheaths 63026 A/B/C/D

63182 A — **Injection Cannula,** 6 Fr., length 50 cm

For use with Cystoscope-Urethroscope Sheath 67031 E and Operating Cystoscopes 67030 BA and 27030 KA

61071 TJ — **Grasping Forceps,** for removing foreign bodies, double-action jaws, flexible, 3 Fr., length 28 cm

61071 ZJ — **Biopsy Forceps,** double-action jaws, flexible, 3 Fr., length 28 cm

27770 AA — **Ball Electrode,** unipolar, 3 Fr., length 53 cm

Components/Spare Parts see chapter 14

5-06i

unipolar

27770 AA

27770 AA	**Ball Electrode,** unipolar, 3 Fr., length 53 cm
27770 A	**Same,** 4 Fr.
27770 B	**Same,** 5 Fr.
27770 C	**Same,** 6 Fr.
27770 D	**Same,** 7 Fr.
27770 E	**Same,** 8 Fr.
27770 F	**Same,** 10 Fr.

27772 AA	**Needle Electrode,** unipolar, 3 Fr., length 53 cm
27772 A	**Same,** 5 Fr.
27772 B	**Same,** 7 Fr.

27778 A	**Loop Electrode,** unipolar, 7 Fr., length 53 cm
27778 B	**Same,** 10 Fr.

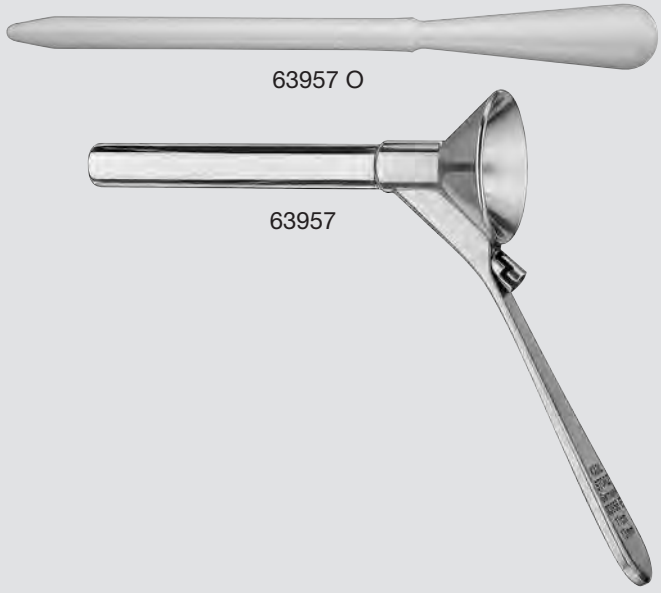
Unipolar High Frequency Cords

KARL STORZ Instrument	High Frequency Surgery Units		
		26002 M	**Unipolar High Frequency Cord,** with 4 mm plug for models KARL STORZ, Erbe type T, older models and Ellman, length 300 cm
		26004 M	**Unipolar High Frequency Cord,** with 4 mm plug for models Berchtold and Martin, length 300 cm
		26005 M	**Unipolar High Frequency Cord,** with 5 mm plug for AUTOCON® II 400 SCB system (111, 115, 122, 125), AUTOCON® II 200, AUTOCON® II 80, KARL STORZ AUTOCON® system (50, 200, 350) and Erbe type ICC, length 300 cm
		26006 M	**Unipolar High Frequency Cord,** with 8 mm plug for models KARL STORZ AUTOCON® II 400 SCB system (112, 116) and Valleylab, length 300 cm

5-06

Please note:
All high frequency cables on this page are delivered with a length of 300 cm only. If a 500 cm cable is required, please add the letter **L,** e.g. 26002 M**L** to the order number.

Vaginoscopy



63957	**Vaginoscope,** diameter 20 mm, working length 15 cm, with Obturator 63957 O
63959	**Vaginoscope,** diameter 15 mm, working length 20 cm, with Obturator 63959 O
63958 E	**Vaginoscope,** diameter 13 mm, working length 11 cm, with Obturator 63958 EO
63960	**Illumination Rod,** with connector pin for fiber optic light carrier
63338 T	**Vaginoscope Attachment,** with adjustable magnifier, magnification 6x
63956 J	**Sheath Insert,** for Telescope 63005 B, for use with Vaginoscopes 63957, 63959 and 63958 E
63591 T	**Biopsy Forceps,** with round cupped jaws, diameter 3.9 mm, working length 25 cm

10-00₂

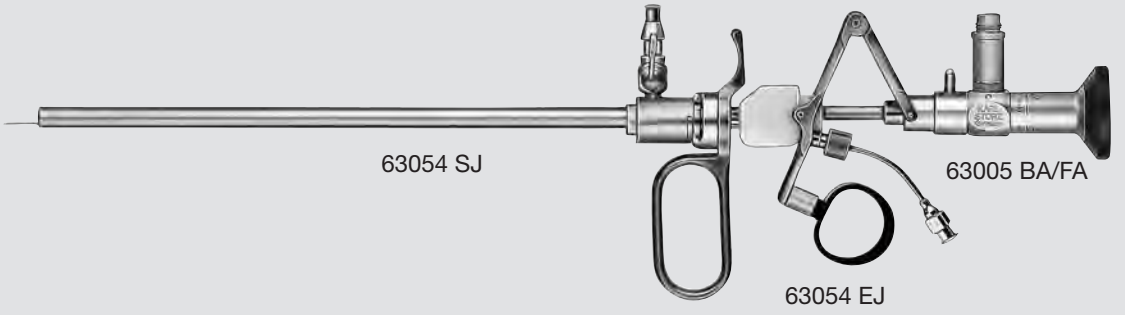
Instrument Set for Transurethral Viscous Fluid Injection

for the treatment of incontinence resulting from sterilization

KARL STORZ — ENDOSKOPE

Special Features

- **Safe positioning of the injection needle**
- **Precise and gentle control of the needle**
- **Working Element 63054 EJ ensures maximum stability of semi-rigid injection needles**
- **Rotatable LUER-Lock connection of the 4 Fr. needle enables easy handling by both right- and left-handed users**
- **Slender 20 Fr. operating sheath reduces the risk of urethral trauma to a minimum**
- **HOPKINS® II telescopes with 12º and 30º directions of view complete the instrument set, delivering high light transmission, outstanding detail resolution and high contrast**

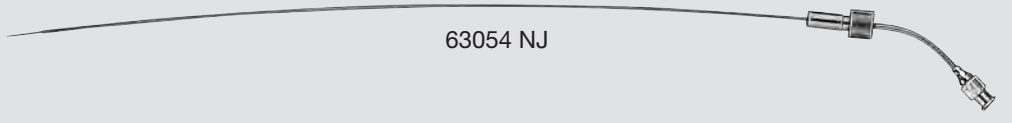


63005 BA **HOPKINS® II Forward-Oblique Telescope 30°,** enlarged view, diameter 4 mm, length 30 cm, **autoclavable,** fiber optic light transmission incorporated, color code: red

63005 FA **HOPKINS® II Telescope 12º,** enlarged view, diameter 4 mm, length 30 cm,**autoclavable**, fiber optic light transmission incorporated, color code: black

63054 EJ **Working Element,** with channel for Injection Needle 63054 NJ

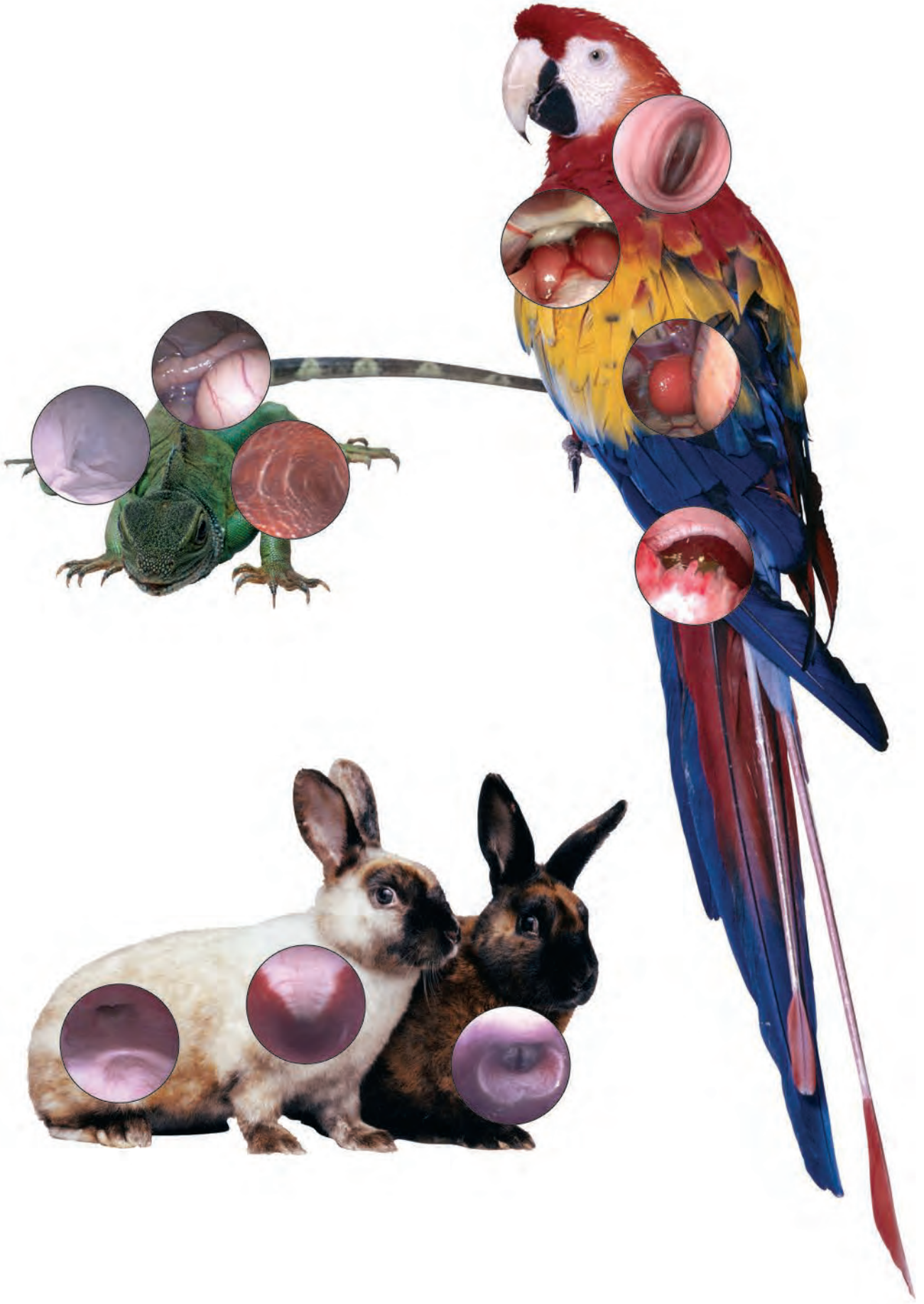
63054 SJ **Operating Sheath,** 20 Fr., with Obturator 27054 JO and 2 LUER-Lock cones, color code: red



63054 NJ **Injection Needle,** semi-rigid, 4 Fr., distal end 2 Fr., with rotatable LUER-Lock connection, for use with Working Element 63054 EJ (single use recommended)

10-00₂

ENDOSCOPY IN BIRDS AND SMALL EXOTIC ANIMALS



Endoscopic photos courtesy of Dr.Stephen J. Hernandez-Divers, College of Veterinary medicine, University of Georgia

Due to the anatomical and physiological characteristics peculiar to avian and small exotic animal patients, endoscopy is an ideal method for examination.

Diagnosis of illnesses in the following organs and body parts:

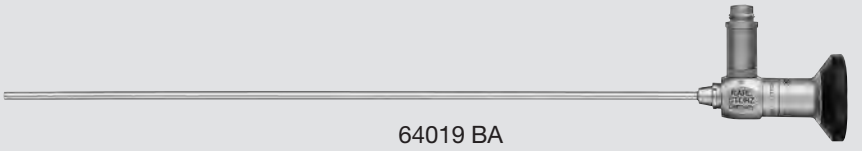
- Heart
- Lung
- Airsac
- Liver
- Proventriculus, ventriculus
- Intestines
- Pancreas
- Spleen
- Adrenal glands
- Kidneys
- Urethra
- Reproductive organs
- Esophagus
- Crop
- Cloaca
- Trachea
- Syrinx
- Fat bodies
- Swim bladder
- Gills
- Teeth
- Pharynx

Endoscopic interventions:

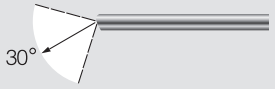
- Coelioscopy
- Biopsy
- Gender identification
- Sampling of debris
- Retrieval of foreign bodies
- Cloacoscopy
- Thoracoscopy
- Arthroscopy
- Minimally invasive surgery
- Laser and HF surgery
- Fine needle injection or aspiration
- Gastrointestinal endoscopy
- Cystoscopy
- Rhinoscopy
- Otoscopy
- Vaginoscopy
- Intubation aid
- Therapeutic curettage and lavage of lesions
- Salpingectomy, ovariectomy and orchidectomy
- Examination of oral cavities and trimming teeth

5-06

Telescope, diameter 2.7 mm, long version

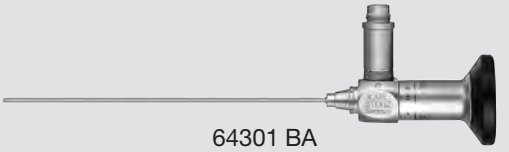


64019 BA



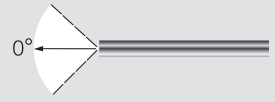
64019 BA — **HOPKINS® II Forward-Oblique Telescope 30°,** diameter 2.7 mm, length 18 cm, **autoclavable,** fiber optic light transmission incorporated, color code: red

Telescopes, diameter 1.9 mm

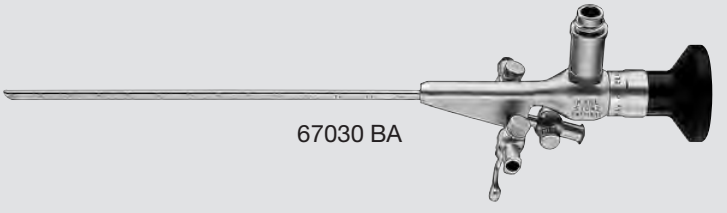


64301 BA

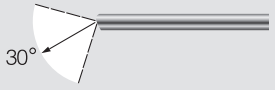
64301 BA — **HOPKINS® Forward-Oblique Telescope 30°,** diameter 1.9 mm, length 10 cm, **autoclavable,** fiber optic light transmission incorporated, color code: red



64301 AA — **HOPKINS® Straight Forward Telescope 0°,** diameter 1.9 mm, length 10 cm, **autoclavable,** fiber optic light transmission incorporated, color code: green



67030 BA



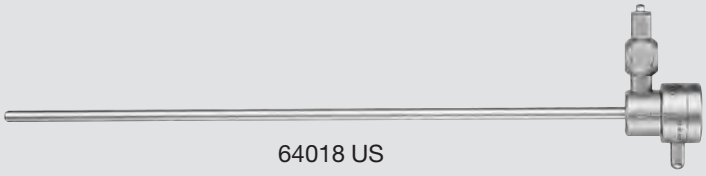
67030 BA — **Operating Telescope 30°,** 9.5 Fr., working length 14 cm, **autoclavable,** fiber optic light transmission incorporated, with working channel 3 Fr. and 2 LUER-Lock cones color code: red

5-061

Sheaths see page 137

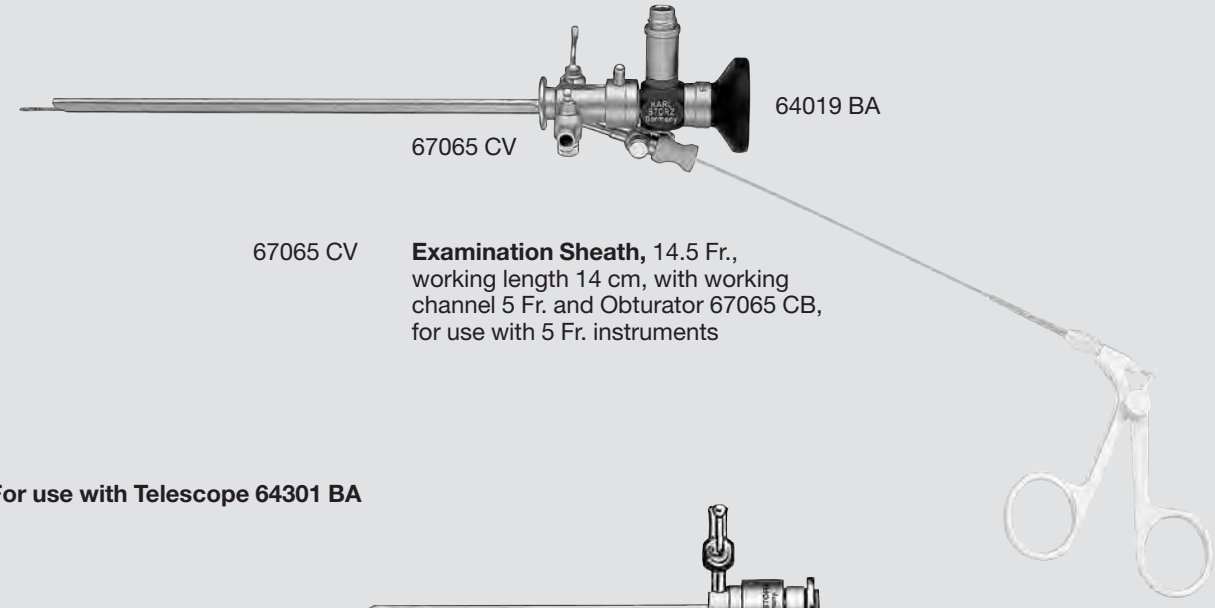
Examination Sheaths

For use with Telescope 64019 BA



64018 US

64018 US **Examination and Protection Sheath,** diameter 3.5 mm, working length 17 cm, for Telescope 64019 BA

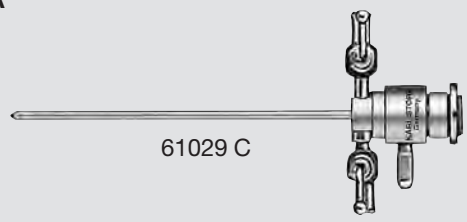


64019 BA

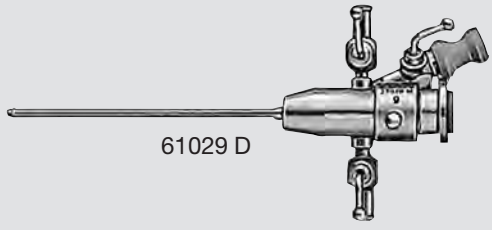
67065 CV

67065 CV **Examination Sheath,** 14.5 Fr., working length 14 cm, with working channel 5 Fr. and Obturator 67065 CB, for use with 5 Fr. instruments

For use with Telescope 64301 BA



61029 C

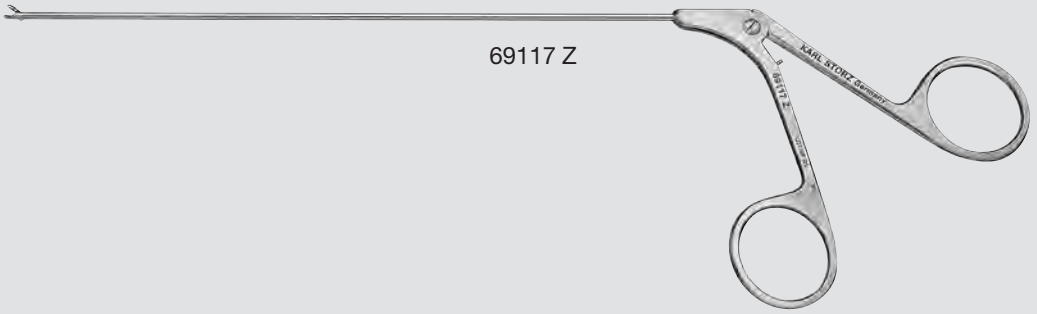


61029 D

61029 C **Protection and Examination Sheath,** working length 8.5 cm, with Obturator 61029 CO and 2 LUER-Lock cones, color code: blue

61029 D **Operating Sheath,** 9 Fr., diameter 2.5 cm, working length 7 cm, with Obturator 61029 DO and working channel 3 Fr., color code: red

5-06i



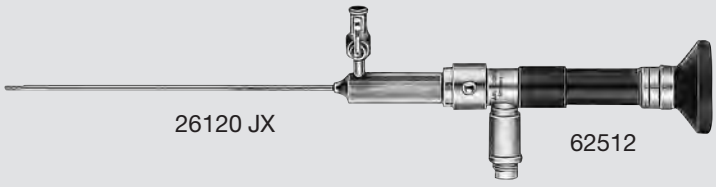
	69117 Z	**Biopsy Forceps,** rigid, round cupped jaws, diameter 1.7 mm, working length 15 cm
	67161 Z	**Biopsy Forceps,** flexible, oval, double action jaws, 5 Fr., length 34 cm
	67161 T	**Grasping Forceps,** flexible, double action jaws, 5 Fr., length 34 cm
	62501 EK	**Scissors,** flexible, single action jaws, 4 Fr., length 34 cm
	67071 X	**Needle,** flexible, with outer tube, diameter 0.7 mm, length 31 cm
	NEW 67161 M	**Measurement Instrument,** flexible, scale in mm, diameter 5 Fr., length 40 cm
	67023 VK	**Stone Basket,** flexible, 5 Fr., length 60 cm including: **3-Ring Handle** **Basket** **Coil**
	67159 L	**Polypectomy Snare,** 5 Fr., length 32 cm including: **Handle** **Tube** **Snare** **Adaptor**
	67772 A	**Needle Electrode,** unipolar, 5 Fr., length 53 cm
	61071 TJ	**Grasping Forceps,** for removing foreign bodies, double-action jaws, flexible, 3 Fr., length 28 cm
	61071 ZJ	**Biopsy Forceps,** double-action jaws, flexible, 3 Fr., length 28 cm

5-061

Components/Spare Parts see chapter 14

Miniature Telescope and Optical VERESS **Pneumoperitoneum Needle**

For tracheoscopy, cystoscopy and rhinoscopy in smaller patients



26120 JX	**Optical** VERESS **Pneumoperitoneum Needle,** with insufflation stopcock, diameter 2.1 mm, length 17.5 cm, with telescope lock for use with Miniature Telescope 62512
62512	**Miniature Straight Forward Telescope 0°,** semi-rigid, diameter 1 mm, length 20 cm, fiber optic light transmission incorporated, color code: green

10-00

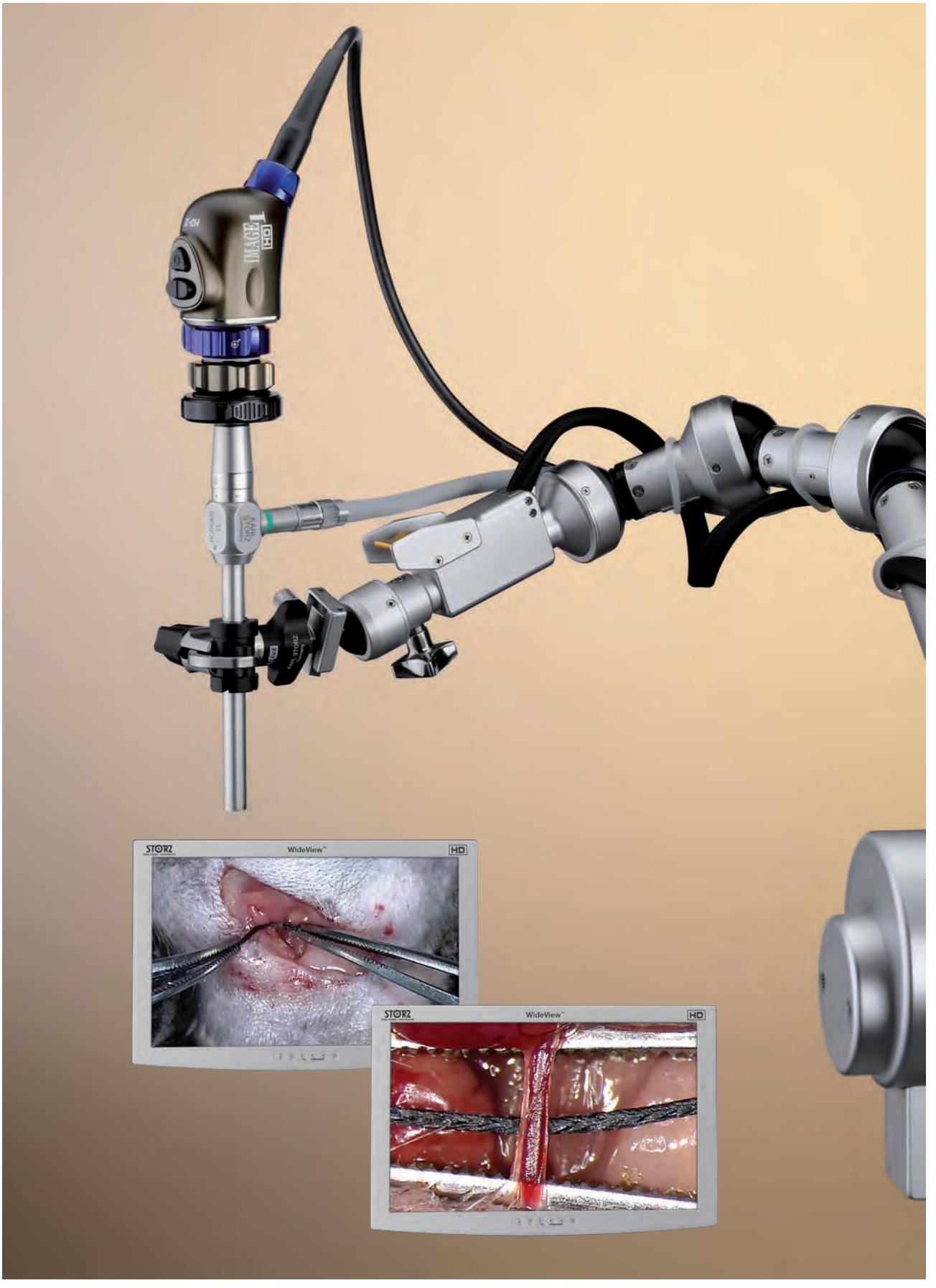
Instruments for Endosurgery in small exotic animals, see chapters 5 and 6, pages 68-69 and 77

VITOM® 25 SYSTEM
VISUALIZATION SYSTEM FOR OPEN SURGERY WITH MINIMAL ACCESS

VITOM® 25 NEW

Visualization System for open Surgery with Minimal Access

KARL STORZ — ENDOSKOPE



3-12

VITOM® 25 NEW

Visualization System for open Surgery with Minimal Access

KARL STORZ — ENDOSKOPE

VITOM® 25 from KARL STORZ represents a revolutionary and innovative way of displaying open surgery with minimal access in a high quality and ergonomic manner.

VITOM® 25 is based on the renowned HOPKINS® II rod lens system from KARL STORZ. With the help of a holding system, the VITOM® 25 is placed at a working distance of 25 – 60 cm above the surgical field. This gives the surgeon more room to work.

The small size of the VITOM® 25 reduces space requirements in the OR to a minimum. Due to its slim and compact design, the surgical field is not obstructed and even long instruments can be used with ease. The VITOM® 25 provides excellent depth of field, magnification, contrast and color reproduction, which are the requisites for FULL HD display and recording.

The first-class enhanced imaging can be observed via a FULL HD monitor from a convenient distance by the surgeon, the assistant as well as the entire OR team.

The VITOM® 25 system has proven to be an excellent alternative to OR illumination cameras, loupes or operating microscopes in various surgical disciplines.

The VITOM® 25 is equipped with an integrated illumination, which can be supplemented with an optional illuminator.

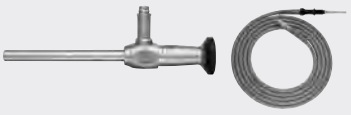
The VITOM® 25 exoscope adds new capabilities to any existing KARL STORZ video system. A FULL HD endoscope imaging solution from KARL STORZ can be used with the VITOM® 25 exoscope.

The VITOM® 25 system offers:

- **Excellent FULL HD image quality**
- **Great depth of view**
- **Large working distance**
- **Ergonomic monitor work**
- **Compact design requiring minimal space in the OR**
- **Use of existing KARL STORZ FULL HD endoscopy system possible**

3-12

Exoscope and Illumination



VITOM® 25 Exoscope
and Light Cable

+

VITOM® 25 Illuminator
and Y-Light Cable (optional)

+

XENON 300 SCB
Light Source

Camera System and Display

IMAGE1 H3-Z Three-Chip
HD Camera Head

+

IMAGE 1 HUB™ HD
Camera Control Unit

+

IMAGE 1 HUB™ HD
Monitor

Holding System

POINT SETTER®
Pneumatic Holding Arm

or

ENDOCRANE®
Piezoelectric Holding Arm

or

Mechanical Holding Arm

Documentation System

KARL STORZ AIDA® compact NEO advanced

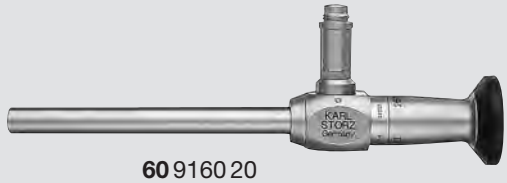
Units and Transport Cart

Equipment Cart 29005 DRB
Transport Cart for POINT SETTER® **20** 0200 83

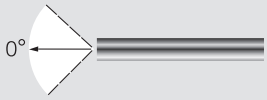
3-12

Cold Light Fontains XENON 300 SCB, Cameras and Monitors see chapter EXCERPT FROM TELEPRESENCE
KARL STORZ AIDA® see catalog KARL STORZ OR1 NEO™

Exoscope and Illumination
Diameter 10 mm, length 11 cm



60 9160 20



60 9160 20 **VITOM® 25 HOPKINS® II Straight Forward Telescope 0°,** working distance 25 – 60 cm, diameter 10 mm, length 11 cm, **autoclavable,** fiber optic light transmission incorporated, color code: green

Fiber Optic Light Cables 69495 NE, 495 NVB or 495 NVC recommended

69495 NE

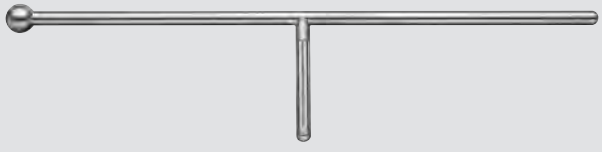
495 NVB

495 NVC

69495 NE **Fiber Optic Light Cable,** diameter 4.8 mm, length 300 cm

495 NVB **Fiber Optic Light Cable,** with 90° deflection to the instrument, diameter 4.8 mm, length 300 cm

495 NVC **Fiber Optic Light Cable,** with 90° deflection to the instrument, very narrow radius of curvature, diameter 4.8 mm, length 300 cm



20 9180 20

20 9180 20 **VITOM® 25 Distance Rod,** length 25 cm

3-12

optional:

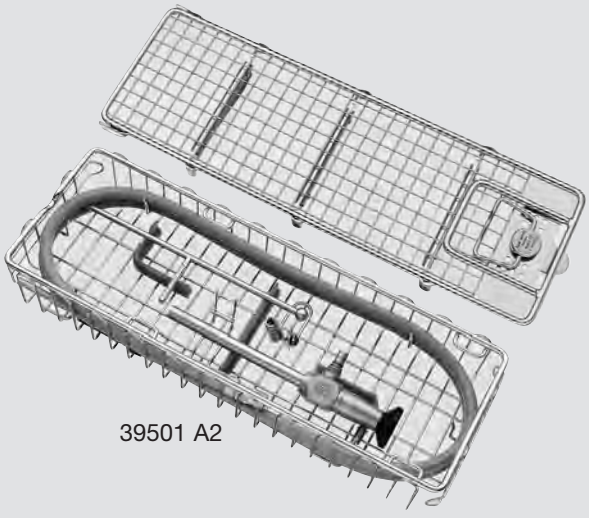
20 9170 00

20 9170 00 **VITOM® 25 Illuminator,** for straight forward telescopes 0°, 2 adjustable lenses with holding device for VITOM® 25, **autoclavable**

Y-Fiber Optic Light Cable 495 UV recommended

495 UV

495 UV **Y-Fiber Optic Light Cable,** 2x diameter 3.5 mm, length 230 cm, for simultaneous connection of two instruments



39501 A2

39501 A2 **Wire Tray for Cleaning, Sterilization and Storage** of two rigid endoscopes and one light guide cable, including holder for light post adaptors, silicone telescope holders and lid, external dimensions (w x d x h): 352 x 125 x 54 mm, for rigid endoscopes up to diameter 10 mm and working length 20 cm

3-12

Cold Light Fontains XENON 300 SCB, Cameras and Monitors see chapter EXCERPT FROM TELEPRESENCE

VITOM® 25 NEW

Specifications

KARL STORZ — ENDOSKOPE

Working distance:	25 – 60 cm	
Depth of view at working distance of:	**25 cm**	**50 cm**
Depth of view:	**approx. 3.5 cm**	**approx. 7 cm**
Field of view at working distance of:	25 cm	50 cm
H3-Z camera zoom 1x	5 cm	10 cm
H3-Z camera zoom 2x	3.5 cm	7 cm
Reproduction scale at working distance of:	25 cm	50 cm
26" Monitor:		
H3-Z camera zoom 1x	approx. 8x	approx. 4x
H3-Z camera zoom 2x	approx. 16x	approx. 8x
42" Monitor:		
H3-Z camera zoom 1x	approx. 14x	approx. 7x
H3-Z camera zoom 2x	approx. 28x	approx. 14x
52" Monitor:		
H3-Z camera zoom 1x	approx. 17x	approx. 8x
H3-Z camera zoom 2x	approx. 34x	approx. 16x

3-12

POINT SETTER® Holding System

28172 WKS

28172 WKS	**POINT SETTER®,** pneumatic holding arm including: **POINT SETTER® Holding Arm,** with OR table adaptor **KSLOCK Adaptor,** for clamping jaws **Clamping Jaw,** large **Clamping Jaw,** small **Clamping Jaw,** for fiberscopes **Pressure Regulator,** 7 bar **Drape,** for single use, sterile, package of 10
28272 CN	**Clamping Cylinder,** folding, for flexible mounting of 10 mm telescopes on the telescope sheath, **autoclavable.** The clamping cylinder allows vertical movement and rotation of the telescope.
28172 WD	**Drape,** for single use, sterile, package of 10

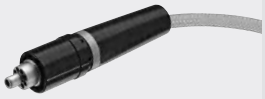
3-12

Note: A connecting tube is required to operate the POINT SETTER® arm.
Please select an appropriate product on page 149

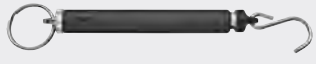
Components/Spare Parts see chapter 14

POINT SETTER® Holding System

Alternative and Spare Connecting Tubes

	28172 WA	**Connecting Tube,** for POINT SETTER®, Dräger, length 600 cm
	28172 WB	**Connecting Tube,** for POINT SETTER®, Dräger air motor, length 600 cm
	28172 WC	**Connecting Tube,** for POINT SETTER®, compressor, length 600 cm
	28172 WN	**Connecting Tube,** for POINT SETTER®, Schrader, length 600 cm
	28172 WO	**Connecting Tube,** for POINT SETTER®, with open end, length 600 cm

Accessories and Expendable Materials

	20 0310 02	**Air Compressor,** for POINT SETTER®, 0 – 8 bar, power supply 230 VAC, 50/60 Hz including: **Fabric Reinforced Tube,** for CALCUSPLIT® SCB **Connecting Tube,** for POINT SETTER®, length 600 cm
	20 0310 02 C	**Air Compressor,** for POINT SETTER®, 0 – 8 bar, power supply 115 VAC, 50/60 Hz including: **Fabric Reinforced Tube,** for CALCUSPLIT® SCB **Connecting Tube,** for POINT SETTER®, length 600 cm
	2761291	**Pressure Regulator,** 7 bar, for POINT SETTER®, must be used for pressure > 8 bar on supply line
	28272 CN	**Clamping Cylinder,** folding, for flexible mounting of 10 mm telescopes on the telescope sheath, **autoclavable.** The clamping cylinder allows vertical movement and rotation of the telescope. For use with Clamping Jaw 28272 UG, 28272 UGN and POINT SETTER® universal adaptor 10 – 15 mm.
	28272 ECW	**Spring Balance,** loading capacity 25 N
	28172 WD	**Drape,** for single use, sterile, package of 10

Components/Spare Parts see chapter 14

3-12

Transport Cart

20 0200 83 **STOR-E® Transport Cart,** for POINT SETTER® holding arm

including:

Subrack, for POINT SETTER®

Accessory Set, for POINT SETTER®

Top Cover

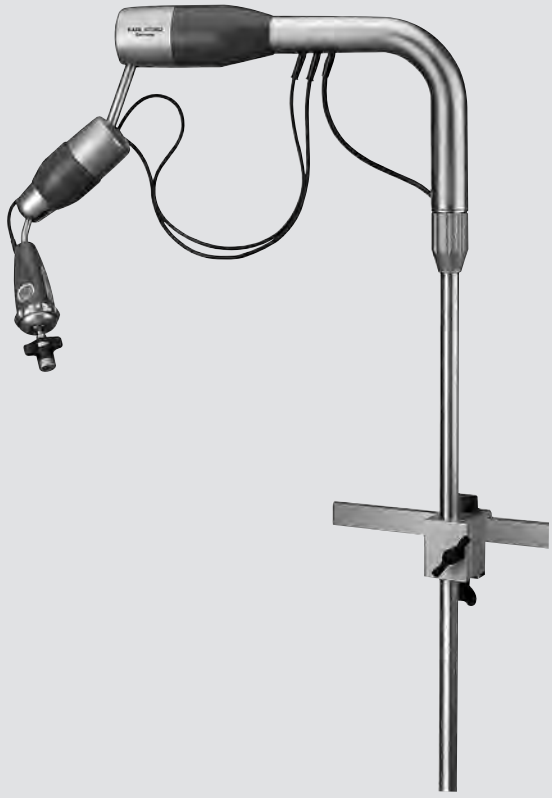
Wire Basket

Manual

3-12

Components/Spare Parts see chapter 14

ENDOCRANE® Holding System



28272 EH

28272 EH	**ENDOCRANE®,** piezoregulated holding arm, including stand including: **Socket,** to clamp to the OR table **Control Unit** **Cover*,** sterile, package of 25 **Spring Balance** **Mains Cord** **Case**
28272 UGN	**Clamping Jaw,** metal, with axial intake, for use with all square-headed KARL STORZ HOPKINS® telescopes, clamping range 16.5 up to 23 mm, with quick release coupling KSLOCK (male)
28272 CN	**Clamping Cylinder,** folding, for flexible mounting of 10 mm telescopes on the telescope sheath, **autoclavable.** The clamping cylinder allows vertical movement and rotation of the telescope. For use with Clamping Jaw 28272 UG, 28272 UGN and POINT SETTER® universal adaptor 10 – 15 mm.

* mtp medical technical promotion gmbh,
Take-Off GewerbePark 46, D-78579 Neuhausen ob Eck, Germany

Components/Spare Parts see chapter 14

KS*lock*

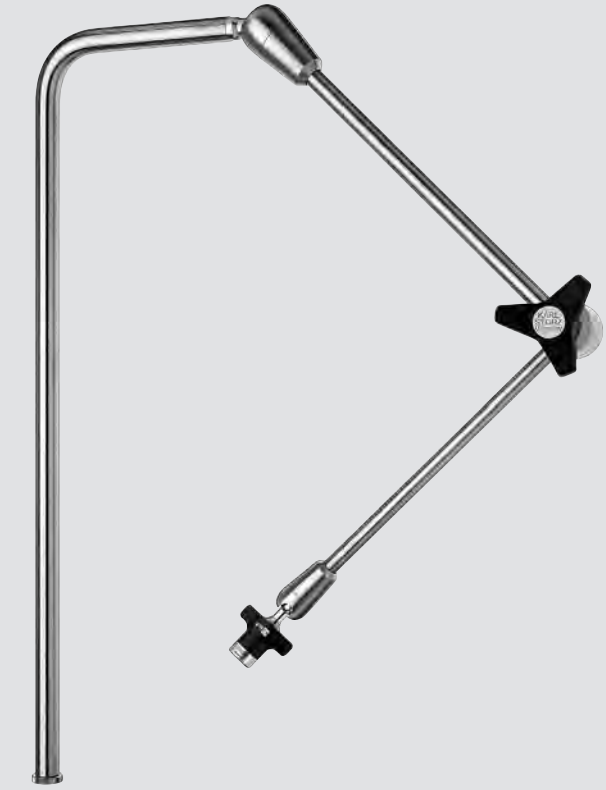
Special Features:

- **Simple, fast and accurate positioning**
- **New, reinforced versions of various articulated stands**
- **Five joint functions enable a large number of different positions**
- **All five joint functions can be fixed by means of a mechanical central clamp**
- **Additional height adjustment by using the socket**
- **Additional angle adjustment by using the socket 28172 HR**
- **Socket for use with European and United States standard rails**
- **Ergonomical positioning at the operating table**
- **Eases the work routine of the assistant**
- **Instruments and telescopes are clamped securely**
- **Steady imaging of the operation field**
- **Modular composition using individual elements**
- **Maintenance-free solid construction**
- **Autoclavable**

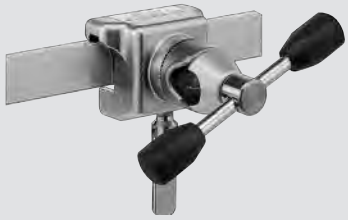
28272 RKB

3-12

Mechanical Holding System



28272 HC



28172 HR

28272 UGN

28272 CN

28272 HC	**Articulated Stand,** L-shaped, long, reinforced version, only, especially large swivel range, with one mechanical central clamp for all five joint functions, height 48 cm, swivel range 66 cm, with quick release coupling KSLOCK (female)
28172 HR	**Rotation Socket,** to clamp to the operating table, with one mounted Butterfly Nut 28172 HRS, for European and US standard rails, with lateral clamp for height and angle adjustment of the articulated stand
28272 UGN	**Clamping Jaw,** metal, with axial intake, for use with all square-headed KARL STORZ HOPKINS® telescopes, clamping range 16.5 up to 23 mm, with quick release coupling KSLOCK (male)
28272 CN	**Clamping Cylinder,** folding, for flexible mounting of 10 mm telescopes on the telescope sheath, **autoclavable.** The clamping cylinder allows vertical movement and rotation of the telescope. For use with Clamping Jaw 28272 UG, 28272 UGN and POINT SETTER® universal adaptor 10 – 15 mm.

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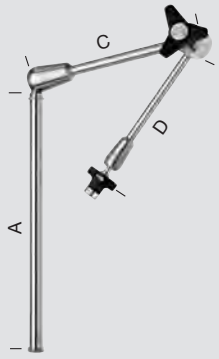
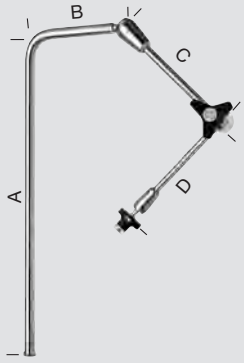
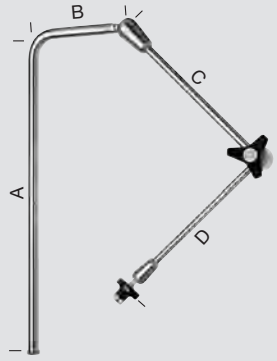
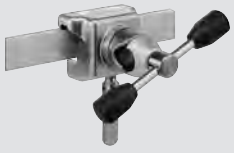
Mechanical Holding Systems

with KSLOCK

KARL STORZ — ENDOSKOPE

KS*lock*

Socket	Articulated Stand					
28172 HK	28272 HA		28272 HB		28272 HC	
						
28172 HR	A 30 cm	B –	A 48 cm	B 15 cm	A 48 cm	B 15 cm
	C 20 cm	D 17 cm	C 20 cm	D 17 cm	C 27 cm	D 24 cm

Clamping Jaw	Complete instrument		
28272 UGN	28272 KGA	28272 KGB	28272 KGC
	28272 RGA	28272 RGB	28272 RGC
	Clamping Jaw, metal, with axial intake, for use with all square-headed KARL STORZ telescopes, clamping range 16.5 up to 23 mm		
28272 UKN	28272 KKA	28272 KKB	28272 KKC
	28272 RKA	28272 RKB	28272 RKC
	Clamping Jaw, metal, with axial intake, for use with instrument, irrigation and telescope sheaths, clamping range 4.8 up to 12.5 mm		
28272 UL	28272 KLA	28272 KLB	28272 KLC
	28272 RLA	28272 RLB	28272 RLC
	Clamping Jaw, universal, clamping range 0 up to 18 mm		
28272 UF	28272 KFA	28272 KFB	28272 KFC
	28272 RFA	28272 RFB	28272 RFC
	Clamping Jaw, for use with all KARL STORZ polymer housing fiberscopes		

Clamping Cylinder		
	28272 CN	**Clamping Cylinder,** folding, for flexible mounting of 10 mm telescopes on the telescope sheath, **autoclavable.** The clamping cylinder allows vertical movement and rotation of the telescope.

3-12

Mobile OR-Rail *NEW*

28272 MR

28272 MR **Mobile OR-Rail,** for installation on tables in veterinary and laboratory settings or experimental surgery

including:

Holding Plate

2x **C-Clamp**

2x **Stop-Block**

Components/Spare Parts see chapter 14

3-12

UNITS AND ACCESSORIES

INSUFFLATORS

SUCTION AND IRRIGATION SYSTEMS

MOTOR SYSTEMS

HIGH FREQUENCY SURGERY UNITS

Units and Accessories for Veterinary Endoscopy – Small Animals

KARL STORZ — ENDOSKOPE

INSUFFLATORS

SUCTION AND IRRIGATION SYSTEMS

MOTOR SYSTEMS

HIGH FREQUENCY SURGERY UNITS

The units manufactured by KARL STORZ combine long-lasting precision mechanics with state-of-the-art micro-electronic programmable controls. At KARL STORZ, the greatest emphasis is placed on user and patient safety. The quality assurance system of KARL STORZ is certified in accordance with the requirements of ISO 9001/EN 46001. It guarantees constant quality testing in the selection of materials and components. At the end of each manufacturing process, tests are carried out with automatic measuring and testing systems developed specially for this purpose. The results are recorded and logged. That gives each device a distinct "fingerprint" that can be checked at any time before and after it is delivered to the customer.

The standardized, modular design of KARL STORZ units was developed based on extensive ergonomic studies and is conceived for ease of care and cleaning and user-friendly practice, as well as to meet the demands of the special hygienic standards required in surgery. Clearly laid out adjacent function keys and displays guarantee efficient operation and make it easier to constantly monitor actual and set parameters. Acoustic and visual warning signals also assist the user. The settings can be changed manually at any time. Automatic microelectronic control systems guarantee optimum operating conditions and therefore relieve the surgeon in his work who can then fully concentrate on medical procedures.

The overall KARL STORZ product line includes the following categories of units with accessories:

- **Insufflators**
- **Suction and Irrigation Systems**
- **Motor Systems**
- **Units for High Frequency Surgery**

10-00ı

INSUFFLATORS

Electronic CO_2 ENDOFLATOR® SCB

NEW CO_2 ENDO-ARTHROFLATOR-VET

Electronic CO_2 ENDOFLATOR® SCB

Recommended System Configuration

KARL STORZ — ENDOSKOPE

Special Features:

- **High degree of patient safety due to CF application part**
- **Easy to use**
- **Clear, adjacent displays for set value and actual value facilitate monitoring of the insufflation process**
- **Touch keys for precise preselection of set values**
- **Optical and acoustic alarm signals in the event of patient overpressure**
- **Fully automatic, electronically controlled gas refill (e. g. in case of gas loss when changing instruments)**
- **SECUVENT® Safety System: Constant monitoring of intraabdominal pressure; any overpressure is reduced immediately**
- **SCB model with connections to the KARL STORZ Communication Bus (KARL STORZ-SCB)**

62 4305 08-1 **Electronic CO_2 ENDOFLATOR® SCB,** power supply 100 – 240 VAC, 50/60 Hz

including:

Mains Cord

Silicone Tubing Set, sterilizable

Universal Wrench

SCB Connecting Cable, length 100 cm

CO_2/N_2O Gas Filter*, sterile, for single use, package of 10

Specifications:

Operating Mode	Operating Mode
Gas Flow	0-20 l/min
Pressure	0-30 mmHg (3990 Pa)
Gas	CO_2
Measuring/Control System	electronic
Parameter Display	- Insufflation Pressure - Intraabdominal Pressure: 0-50 mmHg (6650 Pa) - Gas Flow (l/min): 0-20 - Gas Consumption (l): 0-999

SECUVENT® Safety System	•
Power Supply	100-240 VAC, 50/60 Hz
Dimensions w x h x d	305 x 164 x 233 mm
Weight	6 kg
Certified to	IEC 601-1, CE acc. to MDD

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Optional Accessories for the Electronic CO_2 ENDOFLATOR® SCB see page U 10
Components/Spare Parts see chapter 14

5-06

Electronic CO_2 ENDOFLATOR® SCB

System Components

KARL STORZ — ENDOSKOPE

CO_2 Bottle, Pin-Index connector

26 4000 91 **empty**
26 4000 93 **filled**

CO_2 Bottle, German connector

26 4000 90 **empty**
26 4000 92 **filled**

High Pressure Tube, Pin-Index connector

20 4000 22 length 55 cm
20 4000 28 length 102 cm

High Pressure Tube, German connector

20 4000 21 length 55 cm
20 4000 27 length 102 cm

High Pressure Tube, ISO connector

20 4002 22 length 102 cm

Low Pressure Tube, for central CO_2 gas supply

20 4000 26 length 300 cm

UNIT SIDE

PATIENT SIDE

SCB®

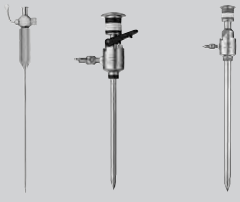
CO_2/N_2O Gas Filter, sterile, for single use

031122-10*

Silicone Tube, for insufflation

20 4001 43

VERESS **Needle** and **Trocars**



62120 J 62160 MCL 62103 APL

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10-00$_2$

CO_2 ENDO-ARTHROFLATOR-VET NEW

Recommended System Configuration

KARL STORZ — ENDOSKOPE

Special Features:

- **One unit with laparoscopy mode and arthroscopy mode**
- **High operating safety**
- **Easy to use**
- **Continously adjustable insufflation pressure**
- **Visual and acoustic alarm signals in the event of patient overpressure**
- **Fully automatic, electronically controlled gas refill (e.g. in case of gas loss when changing instruments)**

62 4325 01 **CO_2 ENDO-ARTHROFLATOR-VET,** power supply 100 – 240 VAC, 50/60 Hz

including:

Mains Cord

Mains Cord, US-version

Silicone Tubing Set, sterilizable

Universal Wrench

CO_2/N_2O Gas Filter*, sterile, for single use, package of 10

Specifications:

Operating Mode	- ARTHRO mode - LAPARO mode
Gas Flow	- 0-20 l/min - 0-20 l/min
Pressure	- 50-100 mmHg (6650 Pa-13332 Pa) - 0-15 mmHg (1999 Pa)
Gas	CO_2
Measuring/Control System	electronic

Parameter Display	- Insufflation Pressure - Intraabdominal Pressure: 0-100 mmHg (13.3kPa) - Gas Flow (l/min): 0-20 - Gas Consumption (l): 0-999
Power Supply	100-240 VAC, 50/60 Hz
Dimensions, w x h x d	305 x 112 x 234 mm
Weight	5.5 kg
Certified to	IEC 601-1, CE acc. to MDD

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Optional Accessories for the CO_2 ENDO-ARTHROFLATOR-VET see page U 10
Components/Spare Parts see chapter 14

CO_2 ENDO-ARTHROFLATOR-VET NEW

System Components

KARL STORZ — ENDOSKOPE

CO_2 Bottle, Pin-Index connector

26 4000 91 **empty**
26 4000 93 **filled**

CO_2 Bottle, German connector

26 4000 90 **empty**
26 4000 92 **filled**

High Pressure Tube, Pin-Index connector

20 4000 22 length 55 cm
20 4000 28 length 102 cm

High Pressure Tube, German connector

20 4000 21 length 55 cm
20 4000 27 length 102 cm

High Pressure Tube, ISO connector

20 4002 22 length 102 cm

Low Pressure Tube, for central CO_2 gas supply

20 4000 26 length 300 cm

UNIT SIDE

PATIENT SIDE

CO_2/N_2O Gas Filter, sterile, for single use

031122-10*

Silicone Tube, for insufflation

20 4001 43

VERESS **Needle, Trocar** and **Arthroscopy Sheath**

62120 J | 62160 MCL | 64131 CR

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Take-Off GewerbePark 46, D-78579 Neuhausen ob Eck, Germany

Optional Accessories

for Insufflators

KARL STORZ — ENDOSKOPE

			for use with: Electronic CO_2 ENDOFLATOR® SCB 26 4305 20-1	for use with: CO_2 ENDO-ARTHRO-FLATOR-VET 62 4325 20
	62120 J	VERESS **Pneumoperitoneum Needle,** with spring-loaded blunt stylet, LUER-Lock, **autoclavable,** diameter 2.1 mm, length 10 cm	●	●
	62120 JK	**Same,** length 7 cm		
	62120 JLL	**Same,** length 15 cm		
	62120 JL	**Same,** length 13 cm		
	30103 HC	**Trocar,** size 11 mm	●	●
	64131 CR	**High-Flow Arthroscope Sheath,** diameter 5.5 mm, working length 13.5 cm	–	●
	20 4000 32	**High Pressure Inline Gas Filter**	●	●
	20 4001 43	**Silicone Tubing Set,** sterilizable	●	●
	26 4000 90	**CO_2 Bottle,** empty, with German connection	●	●
	26 4000 92	**Same,** filled		
	26 4000 91	**CO_2 Bottle,** empty, with Pin-Index connection	●	●
	26 4000 93	**Same,** filled		
	20 4000 21	**CO_2 High Pressure Tube,** American connection/German connection, length 55 cm	●	●
	20 4000 27	**Same,** length 102 cm		
	20 4000 22	**CO_2 High Pressure Tube,** American connection/ Pin-Index connection, length 55 cm	●	●
	20 4000 28	**Same,** length 102 cm		
	20 4002 22	**CO_2 High Pressure Tube,** American connection/ISO connection, length 102 cm	●	●
*	031122-10*	**CO_2/N_2O Gas Filter,** sterile, for single use, package of 10	●	●

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KARL STORZ — ENDOSKOPE

SUCTION AND IRRIGATION SYSTEMS

ARTHROPUMP® SCB

VETPUMP®

VETPUMP® II

ARTHROPUMP® SCB

Irrigation System,
Recommended Complete System Configuration

KARL STORZ — ENDOSKOPE

Special features

- **Irrigation pressure and flow rate are electronically controlled**
- **Facing displays of operating parameter setpoints and actual performance data allow ready operator monitoring of unit operational status**
- **Preselectable values for irrigation pressure and flow are retained in memory while the unit is switched off and will be redisplayed when it is switched on again**
- **State-of-the-art technology for easy operation and high patient safety**
- **ARTHROPUMP® with KARL STORZ Communication Bus (KARL STORZ-SCB)**

69 3300 04-1 **ARTHROPUMP® SCB,**
power supply 100 – 240 VAC, 50/60 Hz
including:
Mains Cord
Tubing Set*, for single use
SCB Connecting Cable, length 100 cm

Optional Accessories:

20 0141 30 **One-Pedal Footswitch,** digital, one-stage, for irrigation

26 3300 42 **ARTHRO Tubing Set,** for ARTHROPUMP® SCB, reusable, sterilizable

Specifications:

Irrigation	- Pressure Regulated: 0-200 mmHg (26.6 kPa) - Flow Regulated: 0-1000 ml/min
Power Supply	100-240 VAC, 50/60 Hz

Dimensions w x h x d	305 x 110 x 260 mm
Weight	7 kg
Certified to	IEC 601-1, CE acc. MDD

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Optional Accessories for ARTHROPUMP® SCB see page U 18
Components/Spare Parts see chapter 14

5-06

ARTHROPUMP® SCB

System Components

KARL STORZ — ENDOSKOPE

One-Pedal Footswitch

20 014130

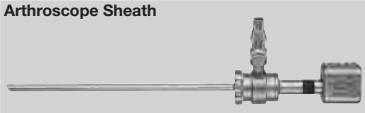
ARTHRO Tubing Set **26** 330042

UNIT SIDE

PATIENT SIDE

SCB®

Arthroscope Sheath



64128 AR

10-002

VETPUMP®

Insufflation Unit

KARL STORZ — ENDOSKOPE

Provides air insufflation for gastrointestinal endoscopy, when using a light source without integrated insufflation pump.

69 3215 01 **VETPUMP®,** power supply 230 VAC, 50/60 Hz
including:
Mains Cord

Specifications:

Flow non-regulated	max. 5 l/min
Pressure non-regulated	max. 800 mmHg (106.4 kPa)
Power Supply	- **69** 3215 20 230 VAC, 50/60 Hz

Dimensions w x h x d	305 x 110 x 260 mm
Weight	2.5 kg
Certified to	IEC 601-1, CE acc. to MDD

2-12

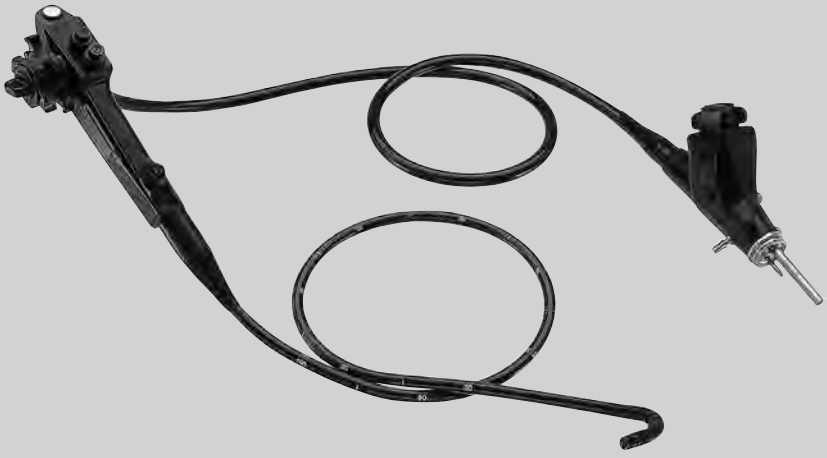
Optional Accessories for the VETPUMP® see page U 18
Components/Spare Parts see chapter 14

UNIT SIDE

PATIENT SIDE

Silicone Tubing Set

610 VE



Adaptor, for use with light sources XENON NOVA® and XENON 175 SCB

69487 KVE

VETPUMP® II

Combined, adjustable Suction and Irrigation System, Recommended Complete System Configuration

KARL STORZ — ENDOSKOPE

Special Features:

- **Powerful suction and irrigation pump for all veterinary medical applications for both rigid and flexible KARL STORZ endoscopes**
- **Irrigation pressure and suction vacuum can be regulated separately**
- **Low noise level as all pumps operate on demand**

69 3216 01	**VETPUMP® II,** power supply 100/120, 230/240 VAC, 50/60 Hz including: **Mains Cord** **Mains Cord,** US-version **Suction Bottle,** 1.5 l, sterilizable **Bottle Cap,** for use with suction bottle 1.5 l, sterilizable **Irrigation Bottle,** 1 l, sterilizable **Bottle Cap,** for use with irrigation bottle **Bottle Holder,** for suction bottle **Bottle Holder,** for irrigation bottle **Filter*,** to block fluid during suction, for single use, unsterile, package of 10

Optional Accessories:

69 3200 33	**Silicone Tubing Set,** irrigation-suction from unit to bottles, **autoclavable**
69811	**Instrument Tubing Set, autoclavable,** connects bottles to Handle 69810, for use with VETPUMP® II
69810	**Handle,** for irrigation and suction, **autoclavable,** for use with Tubing Set 69811, in conjunction with 5 mm suction and irrigation tubes and catheters any size with LUER-Lock connection
20 3000 42	**Silicone Tubing Set,** for suction, sterilizable
610 VE	**Silicone Tubing Set,** for insufflation when using an external airpump, in combination with Adaptor 487 VE or 69487 KVE

Specifications:

Pressure Regulated	max. 600 mmHg
Flow Regulated	max. 3.5 l/min
Suction Pressure	regulated: max. 580 mmHg
Power Supply	100/120, 230/240 VAC, 50/60 Hz

Dimensions w x h x d	305 x 110 x 260 mm
Weight	3.8 kg
Certified to	EN 61010-1

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Optional Accessories for the VETPUMP® II see page U 18, **Additional suction and irrigation accessories** see chapter 6, HANDLES AND INSTRUMENTS FOR SUCTION AND IRRIGATION
Components/Spare Parts see chapter 14

UNIT SIDE

PATIENT SIDE

Silicone Tubing Set for Irrigation (connection unit – bottle) part 1 of 2

69 3200 33

Silicone Tubing Set for Suction (Connection unit – bacterial filter) part 2 of 2

69 3200 33

Filter

031124-10*

Irrigation Bottle with bottle cap

69 3116 01
69 3116 10

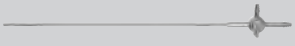
Suction Bottle, 1.5 l, with bottle cap

20 3000 52
20 3000 34

Instrument Tubing Set for Irrigation (bottle – unit) part 2 of 2

69811

Suction and Irrigation Tube



26173 BN

Instrument Tubing Set for Suction (Connection bottle – unit) part 1 of 2

69811

Handle

69810

Suction and Irrigation Tube

37260 LH

Veterinary Otoscope Set

67260 OSA

Suction Catheter

11008

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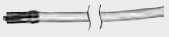
Optional Accessories

for Pump/Suction or Irrigation System

KARL STORZ — ENDOSKOPE

			for use with ARTHROPUMP® 69 3300 04-1	for use with VETPUMP® 69 3215 01 / 69 3215 01 C / 69 3215 01 U	for use with VETPUMP® II 69 3216 01
	20 0141 30	**One-Pedal Footswitch,** digital, one-stage, for irrigation	●	–	–
	20 3000 42	**Silicone Tubing Set,** for suction, sterilizable	–	–	●
	20 3000 50 **20** 3000 32 **20** 3000 33	**Suction Bottle,** 5 l, sterilizable **Bottle Stand,** for suction bottle 5 l **Bottle Stand Holder,** for Bottle Stand **20** 3000 32	–	–	●
	26173 BN	**Suction and Irrigation Tube,** with lateral holes, with two-way stopcock for single hand control, size 5 mm, length 36 cm	–	–	●
	69811	**Instrument Tubing Set, autoclavable,** connects bottles to Handle 69810, for use with VETPUMP® II	–	–	●
	69 3200 33	**Silicone Tubing Set,** irrigation-suction from unit to bottles, **autoclavable**	–	–	●
	610 VE	**Silicone Tubing Set,** for insufflation when using an external airpump, in combination with Adaptor 487 VE or 69487 KVE	–	●	●
	69 0106 20	**VET Switch,** for VETPUMP® II, consisting of shut-off device and foot pedal	–	–	●

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MOTOR SYSTEMS

NEW **UNIDRIVE® S III ARTHRO SCB**

UNIDRIVE® S III ARTHRO SCB

The aim of all arthroscopic procedures is the same: to complete the procedure quickly and with minimal trauma, thereby reducing patient time under anesthesia.

With UNIDRIVE® S III ARTHRO, KARL STORZ has developed a motor system that is customized to meet these requirements.

- Easy to use
- Automatic handpiece recognition
- Control of rotation speed similar to the multifunctional handpiece
- Up to 15,000 rpm
- Comprehensive portfolio of single-use and reusable blades
- Communication with ARTHROPUMP® Power

MOTOR SYSTEMS

2-12

UNIDRIVE® S III ARTHRO SCB NEW

Recommended System Configuration

KARL STORZ — ENDOSKOPE

Special Features:

- **Arthroscopic motor system for all joints**
- **Stable torque throughout entire speed range**
- **Motors with speed ranging from 6000 rpm to max. 15,000 rpm**
- **Multifunctional handpiece with accessories:**
  - **– Jacobs chucks**
  - **– Pin drivers**
  - **– Sagittal saws**
  - **– Synthes-style drivers**
- **Various control options possible**
  - **– Hand controls**
  - **– Footswitch**
  - **– Touch Screen**
- **Fast and easy change of blade via quick coupling**
- **Single-use and reusable blades available**

28 7230 01-1 **UNIDRIVE® S III ARTHRO SCB,** with color display, touch screen operation, two motor outputs, integrated SCB module, power supply 100 – 120/230 – 240 VAC, 50/60 Hz

including:

SCB Connecting Cable, length 100 cm

Mains Cord

Manual

Specifications:

Operating Mode	- Counter Clockwise - Clockwise - Oscillating
Connections	- Small Joint Handpiece - Hybrid Handpiece - Standard Handpiece - High-Speed Handpiece - Multifunction Handpiece - Footswitch - KARL STORZ-SCB

User-Defined Memory	Programmable Physicians' Profiles
Power Supply	100-127 / 220-250 VAC, 50/60 Hz
Dimensions w x h x d	305 x 155 x 318 mm
Weight	9.8 kg
Certified to	IEC 601-1, CE acc. MDD

System requirements:
SCB control NEO System with installed SCB control NEO Software Release **20** 0900 01-44 or higher

Components/Spare Parts see chapter 14

MOTOR SYSTEMS

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UNIDRIVE® S III ARTHRO SCB

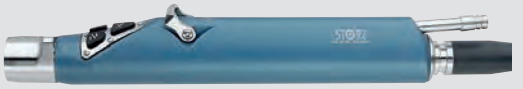
Handpieces

28 7210 40

28 7210 40 **Small Joint Shaver Handpiece,** up to 6000 rpm, for use with UNIDRIVE® S III ARTHRO SCB and POWERSHAVER SL SCB

28 7210 50

NEW **28** 7210 50 **Hybrid Shaver Handpiece,** up to 7000 rpm, for use with UNIDRIVE® S III ARTHRO SCB and POWERSHAVER SL SCB

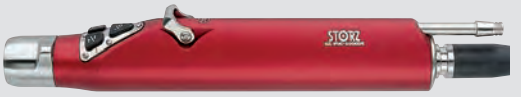


28 7210 35

28 7210 35 **Standard Shaver Handpiece,** up to 8000 rpm, for use with UNIDRIVE® S III ARTHRO SCB and POWERSHAVER SL SCB

28 7210 45

28 7210 45 **Standard Shaver Handpiece,** up to 8000 rpm, **without handpiece buttons,** for use with UNIDRIVE® S III ARTHRO SCB and POWERSHAVER SL SCB



28 7210 30

28 7210 30 **High-Speed Shaver Handpiece,** up to 15000 rpm, for use with UNIDRIVE® S III ARTHRO SCB and POWERSHAVER SL SCB

28 7210 36

28 7210 36 **Multifunction Handpiece,** for use with UNIDRIVE® S II ARTHRO SCB and POWERSHAVER SL SCB

Optional accessories for UNIDRIVE® S III ARTHRO SCB see pages U 23 and 25

MOTOR SYSTEMS

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UNIDRIVE® S III ARTHRO SCB

Handpieces

KARL STORZ — ENDOSKOPE

Specifications:

Handpiece	KARL STORZ Quick Coupling	for use with Reusable Blades	Rotation (rpm)	Oscillation (rpm)	Connecting Cable	Weight
28 7210 40 **Small Joint Shaver Handpiece**	●	●	1000 to 6000	500 to 3000	3.5 m	0.27 kg
28 7210 50 **Hybrid Shaver Handpiece**	●	●	1000 to 7000	500 to 3000	3.5 m	0.43 kg
28 7210 35 **Standard Shaver Handpiece**	●	●	1000 to 8000	500 to 3000	3.5 m	0.47 kg
28 7210 45 **Standard Shaver Handpiece**	●	●	1000 to 8000	500 to 3000	3.5 m	0.44 kg
28 7210 30 **High-Speed Shaver Handpiece**	●	●	1000 to 15000	500 to 3000	3.5 m	0.58 kg
28 7210 36 **Multifunction Handpiece**	●	–	0 to 1700	–	3.5 m	0.65 kg

Optional accessories for UNIDRIVE® S III ARTHRO SCB shaver handpieces and blades

28205 SA	**Irrigation Adaptor,** for validated cleaning of shaver handpieces
28205 SAA	**Irrigation Adaptor,** for validated cleaning of outer blades
28205 SAI	**Irrigation Adaptor,** for validated cleaning of inner blades

Optional accessories for Multifunctional Handpiece 28 7210 36:

28 7210 31	**Jacobs Chuck,** up to diameter 4.5 mm
28 7210 37	**Jacobs Chuck,** up to diameter 6.5 mm
28 7210 38	**Jacobs Chuck,** keyless, up to diameter 7.4 mm, for use with Multifunction Handpiece **28** 7210 36
28 7210 39	**Sagittal Saw Attachment,** keyless, with tilt lever, for use with Multifunction Handpiece **28** 7210 36 and Saw Blades 28207 only
28 7210 33	**Pin Driver,** for drilling wires diameter 1.5 – 3 mm
28 7210 34	**Pin Driver,** for Synthes attachments
28 7210 71	**Connecting Cable,** for FMS pump

UNIDRIVE® S III ARTHRO SCB

System Components

KARL STORZ — ENDOSKOPE

Two-Pedal Footswitch

20 0168 31

Three-Pedal Footswitch

20 0128 32

UNIT SIDE

PATIENT SIDE

28 7210 40
Small Joint Shaver Handpiece,
6000 rpm

NEW

28 7210 50
Hybrid Shaver Handpiece,
7000 rpm

28 7210 35
Standard Shaver Handpiece,
8000 rpm

28 7210 45
Standard Shaver Handpiece,
8000 rpm

28 7210 30
High-Speed Shaver Handpiece,
15000 rpm

28 7210 36
Multifunction Handpiece

28 7210 31
Jacobs Chuck
up to dia. 4.5 mm

28 7210 37
Jacobs Chuck
up to dia. 6.5 mm

28 7210 38
Jacobs Chuck
up to dia. 7.4 mm

28 7210 39
Sagittal Saw Attachment

28 7210 33
Pin Driver for drilling wires diameter 1.5-3 mm

28 7210 34
Synthes-Style Driver

MOTOR SYSTEMS

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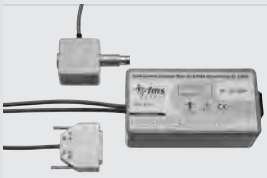
Optional Accessories

KARL STORZ — ENDOSKOPE

for Multifunction Handpiece 28721036

	28 721031	**Jacobs Chuck,** up to diameter 4.5 mm
	28 721037	**Jacobs Chuck,** up to diameter 6.5 mm
	28 721033	**Pin Driver,** for drilling wires diameter 1.5 – 3 mm
	28 721038	**Jacobs Chuck,** keyless, up to diameter 7.4 mm, for use with Multifunction Handpiece **28** 721036
	28 721039	**Sagittal Saw Attachment,** keyless, with tilt lever, for use with Multifunction Handpiece **28** 721036 and Saw Blades 28207 only
	28 721034	**Pin Driver,** for Synthes attachments
	**28** 721071	**Connecting Cable,** for FMS pump

for UNIDRIVE® S III ARTHRO SCB shaver handpieces and blades

	28205 SA	**Irrigation Adaptor,** for validated cleaning of shaver handpieces
	28205 SAA	**Irrigation Adaptor,** for validated cleaning of outer blades
	28205 SAI	**Irrigation Adaptor,** for validated cleaning of inner blades

MOTOR SYSTEMS

Shaver Blades

for use with UNIDRIVE® S III ARTHRO SCB and POWERSHAVER SL, for cutting and grinding

KARL STORZ — ENDOSKOPE

Working length 180 mm

	Type	Use	Order No.	Diameter	Color Code	Application
	Aggressive Cutter	for single use	28208 BKS	4.5 mm mauve	green	soft tissue
	Full Radius Resector	for single use	28208 CCS	4.5 mm mauve	yellow	soft tissue
	Aggressive Full Radius Resector	for single use	28208 DCS	4.5 mm mauve	blue	soft tissue
	Curved Full Radius Resector	for single use	28208 EGS	4.5 mm mauve	light blue	soft tissue
	Curved Aggressive Full Radius Resector	for single use	28208 EHS	4.5 mm mauve	light green	soft tissue
	Semi Hooded Barrel Burr	for single use	28208 IDS	5.5 mm dark gray	pink	bone

MOTOR SYSTEMS

2-12

Shaver Blades

for use with UNIDRIVE® S III ARTHRO SCB and POWERSHAVER SL, for cutting and grinding

KARL STORZ — ENDOSKOPE

Working length 120 mm

Type	Use	Order No.	Diameter	Color Code	Application
Aggressive Cutter	reusable	28205 AB	3.5 mm	green	soft tissue
		28205 AC	4.2 mm		
		28205 AD	5.5 mm		
	for single use	28205 ABS	3.5 mm light gray		
		28205 ACS	4.2 mm medium gray		
		28205 ADS	5.5 mm dark gray		
Aggressive Cutter	reusable	28205 AK	4.5 mm	green	soft tissue
	for single use	28205 AKS	4.5 mm mauve		
		*28208 AKS	4.5 mm dark gray		
End Cutter	reusable	28205 BB	3.5 mm	red	soft tissue
		28205 BC	4.2 mm		
		28205 BD	5.5 mm		
	for single use	28205 BCS	4.2 mm medium gray		
		28205 BDS	5.5 mm dark gray		
Full Radius Resector	reusable	28205 CB	3.5 mm	yellow	soft tissue
		28205 CC	4.2 mm		
		28205 CD	5.5 mm		
	for single use	28205 CBS	3.5 mm light gray		
		28205 CCS	4.2 mm medium gray		
		28205 CDS	5.5 mm dark gray		
Full Radius Resector	reusable	28205 CK	4.5 mm	yellow	soft tissue
	for single use	28205 CKS	4.5 mm mauve		
		*28208 CKS	4.5 mm dark gray		

*28208 blades are available with distal drill guide

MOTOR SYSTEMS

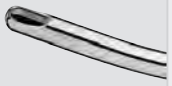
2-12

Shaver Blades

for use with UNIDRIVE® S III ARTHRO SCB and POWERSHAVER SL, for cutting and grinding

KARL STORZ — ENDOSKOPE

Working length 120 mm

Type		Use	Order No.	Diameter	Color Code	Application
	Aggressive Full Radius Resector	reusable	28205 DB	3.5 mm	blue	soft tissue
			28205 DC	4.2 mm		
			28205 DD	5.5 mm		
		for single use	28205 DBS	3.5 mm light gray		
			28205 DCS	4.2 mm medium gray		
			28205 DDS	5.5 mm dark gray		
	Aggressive Full Radius Resector	reusable	28205 DK	4.5 mm	blue	soft tissue
		for single use	28205 DKS	4.5 mm mauve		
	Curved Full Radius Resector	reusable	28205 EG	4.2 mm	light blue	soft tissue
		for single use	28205 EGS	4.2 mm medium gray		
	Curved Aggressive Full Radius Resector	reusable	28205 EH	4.2 mm	light green	soft tissue
		for single use	28205 EHS	4.2 mm medium gray		
	Round Burr	reusable	28205 FC	4.2 mm	orange	bone
			28205 FD	5.5 mm		
		for single use	28205 FCS	4.2 mm medium gray		
			28205 FDS	5.5 mm dark gray		
			28205 FES	6.5 mm black		

MOTOR SYSTEMS

2-12

Shaver Blades

for use with UNIDRIVE® S III ARTHRO SCB and POWERSHAVER SL, for cutting and grinding

KARL STORZ — ENDOSKOPE

Working length 120 mm

	Type	Use	Order No.	Diameter	Color Code	Application
	Finish Barrel Burr	reusable	28205 GD	4.2 mm	purple	bone
			28205 GE	5.5 mm		
			28205 GF	6.5 mm		
		for single use	28205 GDS	4.2 mm medium gray		
			28205 GES	5.5 mm dark gray		
			28205 GFS	6.5 mm black		
	Aggressive Barrel Burr	reusable	28205 HC	4.2 mm	pink	bone
			28205 HD	5.5 mm		
			28205 HE	6.5 mm		
		for single use	28205 HCS	4.2 mm medium gray		
			28205 HDS	5.5 mm dark gray		
			28205 HES	6.5 mm black		
	Auger®	for single use	28205 KDS	5.5 mm medium gray	light purple	bone
	Pro Line Shaver Blades	reusable	28205 MK	4.5 mm	pink	bone, soft tissue
			28205 MD	5.5 mm		
		for single use	28205 MKS	4.5 mm mauve		
			28205 MDS	5.5 mm dark gray		
	Aggressive Pro Line Shaver Blades	reusable	28205 NK	4.5 mm	light blue	bone, soft tissue
			28205 ND	5.5 mm		
		for single use	28205 NKS	4.5 mm mauve		
			28205 NDS	5.5 mm dark gray		

MOTOR SYSTEMS

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Shaver Blades

for use with UNIDRIVE® S III ARTHRO SCB and POWERSHAVER SL, for cutting and grinding for small joints

KARL STORZ — ENDOSKOPE

Working length 70 mm

	Type	Use	Order No.	Diameter	Color Code	Application
	Aggressive Cutter	reusable	28206 AA	2.7 mm	green	soft tissue
		for single use	28206 AAS	2.7 mm white		
			28206 ABS	3.5 mm light gray		
	Full Radius Resector	reusable	28206 CA	2.7 mm	yellow	soft tissue
		for single use	28206 CAS	2.7 mm white		
			28206 CBS	3.5 mm light gray		
	Aggressive Full Radius Resector	reusable	28206 DA	2.7 mm	blue	soft tissue
			28206 DB	3.5 mm		
		for single use	28206 DAS	2.7 mm white		
			28206 DBS	3.5 mm light gray		
	Small Joint Burr	for single use	28206 FAS	2.7 mm white	orange	bone
			28206 FBS	3.5 mm light gray		

MOTOR SYSTEMS

2-12

Accessories

Saw Blades for use with Multifunction Handpiece 28 7210 36 of UNIDRIVE® S III ARTHRO SCB and Saw Handpiece 28 7200 38, for use with Power Unit S1 and S2

KARL STORZ — ENDOSKOPE

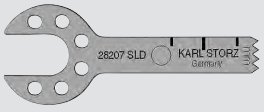
28207 SLA

28207 SLB

28207 SLA **Saw Blade,** blade width 10 mm, blade thickness 0.4 mm, cutting thickness 0.6 mm, working length 50 mm

28207 SLB **Same,** blade width 14 mm

28207 SLC



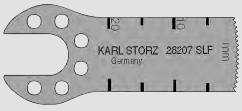
28207 SLD

28207 SLE

28207 SLC **Saw Blade,** blade width 10 mm, blade thickness 0.4 mm, cutting thickness 0.6 mm, with stopper at 15 mm, working length 25 mm

28207 SLD **Same,** blade width 6 mm

28207 SLE **Same,** blade width 8 mm



28207 SLF

28207 SLF **Saw Blade,** blade width 12 mm, blade thickness 0.4 mm, cutting thickness 0.6 mm, working length 22 mm

28207 SLG

28207 SLH

28207 SLG **Saw Blade,** blade width 6 mm, blade thickness 0.4 mm, cutting thickness 0.6 mm, working length 31 mm

28207 SLH **Same,** blade width 10 mm

MOTOR SYSTEMS

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MOTOR SYSTEMS

HIGH FREQUENCY SURGERY UNITS

NEW **AUTOCON® II 400 SCB**

NEW **AUTOCON® II 200**

NEW **AUTOCON® II 80**

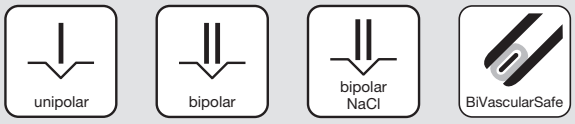
HIGH FREQUENCY
SURGERY UNITS

AUTOCON® II 400 SCB NEW

KARL STORZ — ENDOSKOPE

Special Features:

- For interdisciplinary use
- Cutting-edge next-generation unit with a convenient, easy-to-disinfect touch screen
- Bi-Vascular-Safe mode for bipolar coagulation and thermofusion of large-lumen vessels
- Equipped with 2 bipolar or 2 unipolar HF outputs depending on unit
- Defibrillator-safe CF outputs for maximum patient and user safety
- Permanent safety due to continuous monitoring of the contact between the neutral electrode and the patient during unipolar use
- 2 freely programmable foot pedals can be connected simultaneously
- Automatic activation of HF energy or via handswitch or footswitch depending on mode used
- Self-test for maximum patient and user safety
- Unit versions for standard use, bipolar resection and thermofusion of large-lumen vessels according to individual user requirements
- Up to 28 pre-programmed procedures for a wide range of disciplines make the unit extremely simple to operate. 100 program memories are available for individual programming.



HIGH FREQUENCY SURGERY UNITS

Integrated voltage stability control or arc control
The two state-of-the-art generators both guarantee optimal surgical cutting and coagulation power that adapts continuously to the particular indication, especially when there are wide variations in the tissue structures and tissue impedances. At the press of a button, the operator can switch between arc control (TOP Cut mode) and voltage stability control (POWER Cut mode).

TOP Cut mode
In this mode, the HF energy required for a cutting effect is automatically reduced to the necessary physical minimum in each individual case. The electric arc always remains at a constant level, thus ensuring a uniform surgical effect. Such precise work offers a clear safety advantage and produces a cut that conserves tissue and reduces stress for the patient.

This increased safety with the AUTOCON® II 400 SCB unit is achieved by using the latest and fastest microprocessor and sensor technology, which enables the unit to capture all the important parameters, such as variable incision speed, geometry of the active electrode, different impedance behavior of biological tissue types and fluids, and transition and contact resistances. This data is then used to adjust the HF power output and HF voltage. This means that the operator is not restricted in his work or obliged to adapt to the HF unit. On the contrary, the HF unit adapts optimally to all the user's application and operating techniques.

POWER Cut mode with constant HF voltage and power
This mode ensures a uniform surgical effect and consistent cutting efficiency over a wide impedance range and many different tissue types.

RAM system – return electrode application monitoring
This safety system continuously monitors the contact quality between the neutral electrode and the patient's skin, and additionally indicates it with symbols. If the contact surface area decreases, the safety system gives an early visual and acoustic alarm, thus preventing a burn under the application site of the patient electrode. To increase the contact reliability of the neutral electrode, the user can prevent the application of single-faced electrodes.

Gastro Cut and Papillo Cut
These two new resection modes, which were specially developed by KARL STORZ for use in flexible endoscopy, permit a fractionated and controlled cut with no bleeding. The special HF generator technology allows controlled output of cutting and coagulation pulse current. Both the pulse sequence and the pulse speed can be set separately and specifically for each mode.

LF/HF leakage currents
Stray currents and the associated risk of burns are minimized by design measures.

SCB- and OR1™-compatible
The units are designed for integration in the KARL STORZ Communication Bus (SCB). Full integratability of the HF unit in the networked, and even speech-controlled, operating room of the future is already a standard feature (system requirement: RUI software release 2009001-26 or later).

C-Cut® mode and LAP-C-Cut mode – the intermittent coagulation-cutting mode with AUTOCON® II 400 SCB
Designed for blood-free cutting during laparoscopy and when using irrigation liquids, the electric current is specially modulated and offers a reproducible coagulation current with high cutting efficiency. This makes time-consuming subsequent coagulation a thing of the past. Using the C-Cut® mode thus reduces the need for blood transfusions and saves surgery time. The result is an overall reduction in operating costs, and for the patient it means additional protection.

Bipolar generator with 370 W HF power
This outstanding performance range allows the unit to be used in conjunction with the newly developed bipolar special and standard accessories. This high-end unit is even suitable for indications using irrigation liquids, which in the past could only be performed with special-purpose HF systems. The safety of the bipolar technology from KARL STORZ eliminates the need for applying a neutral electrode, including for interventions which used to be standard unipolar procedures.

Unipolar generator with 300 W HF power
With a peak power of 300 watts, the AUTOCON® II 400 SCB is ideally equipped for interventions in all areas of use.

AUTOCON® II 400 SCB NEW

Safety Aspects and Main Features

KARL STORZ — ENDOSKOPE

Precise power setting and power limitation
Exact fine tuning in 1 W steps is provided for interventions requiring maximum precision with very low power.

Up to 8 hemostatic effects
Individual selection of up to 8 hemostatic effects for unipolar and bipolar cutting, each with up to 370 W output, permits optimal control of coagulation and the surgical effect in every situation.

Forceps auto-start function
When the forceps tips contact the tissue, bipolar coagulation is activated automatically after a freely adjustable delay of up to 9.9 seconds.

6.5" touch screen
The color touch screen makes the AUTOCON® II 400 SCB the world's first HF unit with this new, user-friendly operating technology. It also offers the important advantage of very easy cleaning and wipe-down disinfection.

100 program memories
Simple programming of the indication-related unit parameters makes the AUTOCON® II 400 SCB easy and intuitive to operate because all the programs can be stored in numeric order or text-based with user name and indication. The stored programs can be called up in the indication list at the touch of a button.

Bipolar coagulation auto-stop function
Automatic power shutdown when the coagulation procedure has been ended.

Self-test program
A comprehensive software safety concept ensures smooth, safe use after switching on. Detected component faults are indicated by an error code display, enabling rapid troubleshooting. The self-test also includes the connected accessories for the specific purpose of minimizing waiting times in preoperative work-up.

Software upgrade
The service port on the back of the unit allows the HF functions of the AUTOCON® II 400 SCB to be expanded economically for future forms of HF treatment. This means that the AUTOCON® II 400 SCB is always up-to-date.

HIGH FREQUENCY SURGERY UNITS

AUTOCON® II 400 SCB, NEW
AUTOCON® II 200/80

Special Features

KARL STORZ — ENDOSKOPE

Special Features:	AUTOCON® II 400 SCB	AUTOCON® II 200	AUTOCON® II 80
Degree of coagulation (effect) can be preselected in several steps: The degree of coagulation measures extent of coagulation depth	●	●	–
Bi-Vascular-Safe mode for bipolar coagulation and thermofusion of large-lumen vessels	●	–	–
Easy to use due to automatic mode selection thanks to recognition of instrument-cable connection	●	–	–
Spray coagulation: Coagulation with modulated HF voltage (Up > 500 V); very long arcs enable coagulation of large and bleeding areas of tissue without contact to tissue	●	–	–
Autostart function: Manual adjustment of operating time limit for bipolar coagulation	●	●	–
Voltage-regulated cutting	●	●	–
Separate papillo-cut and gastro-cut functions enable fractionated cutting with regulated HF current at different cutting speeds for flexible endoscopy	●	●	–
Autostart function for bipolar coagulation: Automatic activation of coagulation current as soon as coagulation electrode touches tissue with both branches	●	●	–
Activation of HF functions possible via footswitch or manual control switch for unipolar or bipolar	●	●	–
Bipolar resection with KARL STORZ bipolar electrotomes	●	–	–
Bipolar application with NaCl irrigation solution	●	–	–
Modular connecting sockets for unipolar and bipolar applications can be selected according to individual requirements	●	●	●
100 applications with text can be stored	●	–	–
Convenient use via 6.5" Touch Screen	●	–	–
Switchover function enables switching between two modes within a user program via a footswitch from the sterile area	●	–	–
Arc-controlled cutting, unipolar	●	–	–
Compatible with KARL STORZ Communication Bus (KARL STORZ-SCB)	●	–	–
Service port for software updates and HF functionality upgrades	●	–	–

AUTOCON® II 400 SCB NEW

Specifications

KARL STORZ — ENDOSKOPE

HF Modes	Effects	P max. at 500 Ohm	V_p max. at 500 Ohm	Crest Factor	Arc Control	Voltage Control
Unipolar						
TOP-Cut	8	300	950	1.4	●	–
POWER-Cut	8	300	740	1.4	–	●
C-Cut®	8	200	1450	3.0	–	●
LAP-C-Cut	8	200	1450	3.0 – 3.8	–	●
Gastro-Cut	4	200	880	1.4	–	●
Papillo-Cut	4	200	880	1.4	–	●
Standard Coag	8	200 (at 50 Ohm)	190	1.4	–	●
Forced Coag	4	120	1800	6.0	–	●
Spray Coag	2	120	4300	7.4	–	●
Bipolar						
Bipolar-Cut	8	100	740	1.4	–	●
Saline-C-Cut	8	370	770	1.4	–	●
Saline-C-Cut ++*	8	300 (at 750 Ohm)	490	1.4	–	●
Saline-Time-C-Cut	8 time 0.1-1 sec.	370	770	1.4	–	●
Saline-Time-C-Cut ++*	8	300 (at 750 Ohm)	490	1.4	–	●
Saline Coag	8	200 (at 50 Ohm)	190	1.4	–	●
Saline Coag ++*	8	200 (at 50 Ohm)	190	1.4	–	●
Saline-Time-Coag	8 time 0.1-1 sec.	200 (at 50 Ohm)	190	1.4	–	●
Saline-Time-Coag ++*	8 time 0.1-1 sec.	200 (at 50 Ohm)	190	1.4	–	●
Bipolar Soft Coag	8	120 (at 75 Ohm)	190	1.4	–	●
Bipolar Soft with Auto-Stop	8	120 (at 75 Ohm)	190	1.4	–	●
Bi-Vascular-Safe**	8	300 (at 25 Ohm)	220	1.4	–	●

*Only for units with additional resection module

**with software package “Bi-Vascular-Safe”

Specifications:

Safety systems	- Automatic self-test - Maldosage - Neutral electrode safety system (dynamic, two-part, one- and two-part NE) - LF/HF leakage current monitor - Activation time - Deactivable HF

Power supply	**20** 5352 2x-12x: 220-240 VAC, 50/60 Hz **20** 5352 2xU12x: 100-120 VAC, 50/60 Hz
Dimensions w x h x d	448 x 164 x 345 mm
Weight	10 kg
Certified to	IEC 60601-1, CE acc. to MDD

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HIGH FREQUENCY SURGERY UNITS

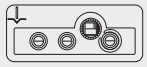
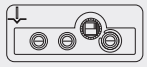
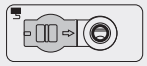
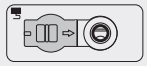
AUTOCON® II 400 SCB NEW

High Frequency Surgery Unit,
Recommended System Configurations

KARL STORZ — ENDOSKOPE

AUTOCON® II 400 SCB,
power supply 220 – 240 VAC, 50/60 Hz
including:
Mains Cord
SCB Connecting Cable, length 100 cm

AUTOCON® II 400 SCB,
power supply 100 – 120 VAC, 50/60 Hz
including:
Mains Cord
SCB Connecting Cable, length 100 cm

Application	Standard: Unipolar/Bipolar	High-End
Unit version	-122 (220 – 240 VAC) U122 (100 – 120 VAC)	-125 (220 – 240 VAC) U125 (100 – 120 VAC)
Product No.	**20** 5352 01-122 **20** 5352 01U122	**20** 5352 01-125 **20** 5352 01U125 basic unit
	–	**20** 5352 02-125 **20** 5352 02U125 basic unit, incl. additional resection module
	–	**20** 5352 03-125 **20** 5352 03U125 basic unit, incl. Bi-Vascular-Safe mode
	–	**20** 5352 04-125 **20** 5352 04U125 basic unit, incl. additional resection module + Bi-Vascular-Safe mode
Socket Position		
1	Bipolar Combination	Bipolar Combination
2	Bipolar Combination	Bipolar Multifunction
3	Unipolar 3-pin and Erbe 	Unipolar 3-pin and Erbe 
4	NE 6.3 mm jack and 2-pin 	NE 6.3 mm jack and 2-pin 

Optional Accessories for AUTOCON® II 400 SCB see pages U 46-51
Components/Spare Parts see chapter 14

2-12

AUTOCON® II 400 SCB NEW

System Components

KARL STORZ — ENDOSKOPE

Three-Pedal Footswitch

20 017831

Two-Pedal Footswitch

20 017830

One-Pedal Footswitch

20 017832

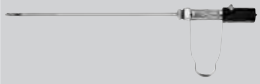
UNIT SIDE

PATIENT SIDE

Bipolar High Frequency Cord

26176 LE

TAKE-APART®
Bipolar Grasping Forceps



26180 HA

Unipolar High Frequency Cord

26 520045

Unipolar High Frequency Cord

26005 M

Connecting Cable

27806
27806 A

Handle

26 520043

BiVascularClamp

20 540021

Knife Electrode

26 520036

CLICK*line* Grasping Forceps

33321 MF

Neutral Electrode

27805

HIGH FREQUENCY SURGERY UNITS

AUTOCON® II 200 NEW

High Frequency Surgery Unit,
Recommended System Configuration

KARL STORZ — ENDOSKOPE

20 5322 01	**AUTOCON® II 200,** power supply 200 – 240 VAC, 50/60 Hz including: **Mains Cord**
20 5322 01 C	**AUTOCON® II 200,** power supply 100 – 120 VAC, 50/60 Hz including: **Mains Cord,** US version
20 5322 01-010	**AUTOCON® II 200,** with GASTRO-Cut, power supply 200 – 240 VAC, 50/60 Hz including: **Mains Cord**
20 5322 01C010	**AUTOCON® II 200,** with GASTRO-Cut, power supply 100 –120 VAC, 50/60 Hz including: **Mains Cord,** US version

Specifications:

HF rated power	**- Cutting** Power-Cut (unipolar): 220 Watt/500 Ohm GASTRO-Cut (unipolar): 200 Watt/75 Ohm **- Coagulation** Standard-Coag (unipolar): 120 Watt/50 Ohm Forced-Coag (unipolar): 120 Watt/500 Ohm Standard-Coag (bipolar): 120 Watt/75 Ohm
Max. voltage	**- Cutting** Power-Cut (unipolar): 740Vp GASTRO-Cut (unipolar): 550Vp **- Coagulation** Standard-Coag (unipolar): 190Vp Forced-Coag (unipolar): 1800Vp Standard-Coag (bipolar): 190Vp
Degree of coagulation	Power-Cut: 8 GASTRO-Cut: 4 Standard-Coag: 8 Forced-Coag: 4 Bipolar Standard-Coag: 8

Autostart	**Coagulation** bipolar
Autostop	**Coagulation** unipolar standard
Safety systems	- permanent power control - maldosage - neutral electrode safety system - automatic Self-Test
Power supply	100-120 VAC or 200-240 VAC, 50/60 Hz
Dimensions w x h x d	410 x 165 x 385 mm
Weight	10 kg
Certified to	IEC 60601-1, CE acc. to MDD

2-12

Optional Accessories for AUTOCON® II 200 see pages U 46-51
Components/Spare Parts see chapter 14

AUTOCON® II 200 NEW

System Components

KARL STORZ — ENDOSKOPE

Two-Pedal Footswitch

20 0178 30

One-Pedal Footswitch

20 0178 32

UNIT SIDE

PATIENT SIDE

Connecting Cable

27806

Neutral Electrode

27805

Bipolar High Frequency Cord

26176 LE

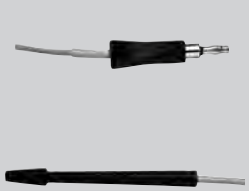
Unipolar High Frequency Cord

26 5200 45

Handle

26 5200 43

Handle with Cord, unipolar

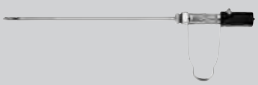


26 5200 46

Unipolar High Frequency Cord

26005 M

TAKE-APART® Bipolar Grasping Forceps



26180 HA

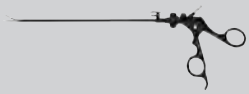
Knife Electrode

26 5200 36

Knife Electrode

26 5200 36

CLICKline Grasping Forceps



33321 MF

HIGH FREQUENCY SURGERY UNITS

2-12

AUTOCON® II 80 NEW

High Frequency Electrosurgical Unit,
Recommended System Configurations

KARL STORZ — ENDOSKOPE

20 5308 01 **AUTOCON® II 80,**
power supply 100 – 240 VAC, 50/60 Hz
including:
Mains Cord

Specifications:

HF rated power	- Dry Cut: 80 Watt/500 Ohm - Forced Coag: 50 Watt/500 Ohm - Soft Coag: 80 Watt/100 Ohm - Auto Cut: 80 Watt/500 Ohm - Bipolar Soft: 80 Watt/100 Ohm
Max. voltage	- Dry Cut: 830Vp - Forced Coag: 1200Vp - Soft Coag: 180Vp - Auto Cut: 500Vp - Bipolar Soft: 180Vp

Safety systems	- permanent power control - maldosage - neutral electrode safety system - automatic self-test
Power supply	100-240 VAC, 50/60 Hz
Dimensions w x h x d	280 x 135 x 300 mm
Weight	4 kg
Certified to	IEC 60601-1, CE acc. to MDD

Optional Accessories for AUTOCON® 80 see pages U 46-51
Components/Spare Parts see chapter 14

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AUTOCON® II 80 NEW

System Components

KARL STORZ — ENDOSKOPE

Two-Pedal Footswitch

20 0178 34

One-Pedal Footswitch

20 0178 33

UNIT SIDE

PATIENT SIDE

Connecting Cable

27806

Neutral Electrode

860021 E

Bipolar High Frequency Cord

26176 LE

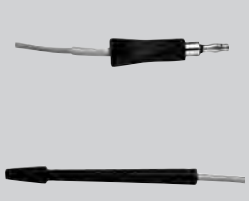
Unipolar High Frequency Cord

26 5200 45

Handle

26 5200 43

Handle with Cord, unipolar

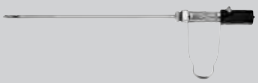


26 5200 46

Unipolar High Frequency Cord

26005 M

TAKE-APART® Bipolar Grasping Forceps



26180 HA

Knife Electrode

26 5200 36

Knife Electrode

26 5200 36

CLICKline Grasping Forceps

33321 MF

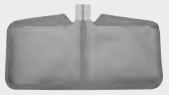
HIGH FREQUENCY SURGERY UNITS

2-12

Optional Accessories

for AUTOCON® II 400 SCB and AUTOCON® II 200/80

KARL STORZ — ENDOSKOPE

			for use with AUTOCON® II 400 SCB	AUTOCON® II 200	AUTOCON® II 80
	20 0178 31	**Three-Pedal Footswitch,** with switch function for switching between mode levels A and B, for use with AUTOCON® II 400 SCB	●	–	–
	20 0178 30	**Two-Pedal Footswitch,** for use with AUTOCON® II 400 SCB and AUTOCON® II 200	●	●	–
	20 0178 32	**One-Pedal Footswitch,** for activating coagulation, for use with AUTOCON® II 400 SCB and AUTOCON® II 200	●	●	–
	20 0178 34	**Two-Pedal Footswitch,** digital, one-stage	–	–	●
	20 0178 33	**One-Pedal Footswitch,** digital, one-stage	–	–	●
	27805	**Neutral Electrode,** of conductive silicone with 2 rubber ties for fastening, contact surface A = 500 cm², for use with Connecting Cable 27806	●	●	●
	860021 E	**Neutral Electrode,** of conductive silicone, with 1 rubber tie for fastening, contact surface A = 187 cm², for use with Connecting Cable 27806	–	–	●
	27806	**Neutral Electrode Connecting Cable,** for Neutral Electrodes 27805 and 860021 E, length 400 cm	-111 -115 -122 -125	●	●
	27806 UR	**Neutral Electrode Connecting Cable,** for Neutral Electrode 27805	-112 -116 -122 -125	●	●
	27806 US	**Neutral Electrode Connecting Cable,** for Neutral Electrode 27802	-112 -116 -122 -125	●	●
	27802	**Neutral Electrode,** for single use, contact surface divided into two, A = 169 cm², package of 50, Connecting Cable 27801 required	●	●	●
	27801	**Connecting Cable,** for connecting Neutral Electrode 27802, length 500 cm	-111 -115 -122 -125	●	●
	26 5200 43	**Electrode Handle,** with 2 buttons for activating the unipolar generator, yellow button: unipolar cutting, blue button: unipolar coagulation (Cable **26** 5200 45 required)	●	●	●
	26 5200 45	**High Frequency Cable,** for Electrode Handle **26** 5200 43, length 400 cm	-111 -115 -122 -125	●	●
	26 5200 46	**Electrode Handle,** without buttons, with integrated connecting cable, length 300 cm	-111 -115 -122 -125	●	●
	26176 BP *NEW*	**Bipolar Adaptor,** for AUTOCON® to 66177 CC/CCL and **26** 5200 48	●	●	●

HIGH FREQUENCY SURGERY UNITS

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Surgery Electrodes Set

Accessories

unipolar

20 5300 08 **Surgery Electrodes Set**
including:

Container with Lid and Sterilizing Insert, for 16 electrodes with diameter 4 mm

Wire Snare, 5 mm

Same, 10 mm

Ribbon Snare, 10 mm

KIRSCHNER **Spatula Electrode,** straight

MAGENAU **Knife Electrode,** angled

Same, lancet-shaped

Ball Electrode, 2 mm

Same, 4 mm

Same, 6 mm

Needle Electrode

Flat Electrode, 8 x 10 mm

Same, 10 x 15 mm

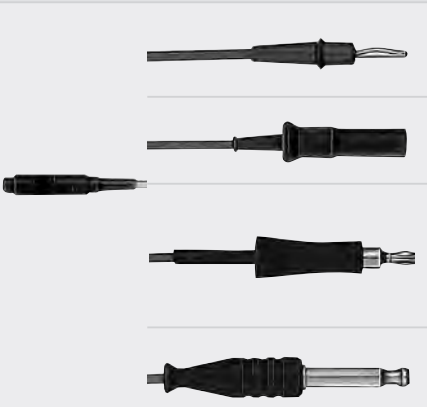
For use with Electrode Handles 26 5200 43 and 26 5200 46
Components/Spare Parts see chapter 14

HIGH FREQUENCY SURGERY UNITS

2-12

Unipolar High Frequency Cords

unipolar

KARL STORZ Instrument	High Frequency Surgery Units		
		26002 M	**Unipolar High Frequency Cord,** with 4 mm plug for models KARL STORZ, Erbe type T, older models and Ellman, length 300 cm
		26004 M	**Unipolar High Frequency Cord,** with 4 mm plug for models Berchtold and Martin, length 300 cm
		26005 M	**Unipolar High Frequency Cord,** with 5 mm plug for AUTOCON® II 400 SCB system (111, 115, 122, 125), AUTOCON® II 200, AUTOCON® II 80, KARL STORZ AUTOCON® system (50, 200, 350) and Erbe type ICC, length 300 cm
		26006 M	**Unipolar High Frequency Cord,** with 8 mm plug for models KARL STORZ AUTOCON® II 400 SCB system (112, 116) and Valleylab, length 300 cm

Please note: All high frequency cords of this page are delivered with a length of 300 cm. If a length of 500 cm is requested please add letter **L** to the part number, e. g. 26002 M**L,** 26176 LV**L.**

Bipolar High Frequency Cords

bipolar

KARL STORZ Instrument	High Frequency Surgery Units		
		26176 LE	**Bipolar High Frequency Cord,** for AUTOCON® II 400 SCB system (111, 113, 115, 122, 125), AUTOCON® II 200, AUTOCON® II 80, KARL STORZ Coagulator 26021 B/C/D, 860021 B/C/D, 27810 B/C/D, 28810 B/C/D, AUTOCON® system (50, 200, 350), Erbe-Coagulator, T and ICC series, length 300 cm
		26176 LM	**Bipolar High Frequency Cord,** for Martin and Berchtold coagulators, length 300 cm
		26176 L	**Bipolar High Frequency Cord,** with 2x 4 mm banana plug for KARL STORZ Coagulator 26020 XA/XB and Ellman, length 300 cm
		26176 LA	**Bipolar High Frequency Cord,** with 2x 4 mm banana plug for KARL STORZ Coagulator 26020 XA/XB and Valleylab, length 300 cm
		26176 LV	**Bipolar High Frequency Cord,** for KARL STORZ AUTOCON® II 400 SCB system (112, 114, 116, 122, 125) and Valleylab coagulators, length 300 cm

BiVascularSafe

	20 5400 21	**BiVascularClamp,** total length 20 cm, with thermoinsulation, for open surgery, integrated MF cable length 4 m
	20 5400 22	**Same,** total length 21 cm, with corrugated jaws
	20 5400 23	**Same,** total length 27 cm

Bipolar Coagulating Forceps, insulated
for use with Bipolar High Frequency Cords 847000 or 847000 A/E/M/V

bipolar

	841045	**Bipolar Coagulating Forceps,** insulated, angled tip, sharp, very delicate, length 10.5 cm
	841046	**Same,** blunt, tip 1 mm
	841111	**Bipolar Coagulating Forceps,** insulated, straight, blunt, length 11 cm
	841116	**Bipolar Coagulating Forceps,** insulated, straight, pointed, length 16 cm
	841216	**Same,** blunt, tip 1 mm, length 16 cm
	841219	**Same,** blunt, tip 1 mm, length 19 cm
	842016	**Bipolar Coagulating Forceps,** insulated, angled tip, very delicate, tip 0.5 mm, length 16 cm
	842116	**Bipolar Coagulating Forceps,** insulated, angled tip, tip 0.5 mm, length 16 cm
	842111	**Bipolar Coagulating Forceps,** insulated, angled tip, pointed, length 11 cm
	842216	**Same,** blunt, tip 1 mm, length 16 cm
	842219	**Same,** blunt, tip 2 mm, length 19 cm
	842319	**Same,** blunt, tip 1 mm, length 19 cm

Accessories

High Frequency Cords
for use with Bipolar Coagulation Instruments

KARL STORZ — ENDOSKOPE

Bipolar High Frequency Cords

bipolar

KARL STORZ Instrument	High Frequency Electrosurgery Units		
		847000 E	**Bipolar High Frequency Cord,** for AUTOCON® II 400 SCB systems (111, 113, 115, 122, 125), AUTOCON® II 200, AUTOCON® II 80, KARL STORZ Coagulator 26021 B/C/D, 860021 B/C/D, 27810 B/C/D, 28810 B/C/D, AUTOCON® systems (50, 200, 350), Erbe-Coagulator, T and ICC series, length 300 cm
		847000	**Bipolar High Frequency Cord,** with 2x 4 mm banana plug to KARL STORZ Coagulator 26020 XA/XB for KARL STORZ bipolar coagulation forceps, length 300 cm
		847000 A	**Bipolar High Frequency Cord,** with 2x 4 mm banana plug for KARL STORZ Coagulator 26020 XA/XB and Valleylab, length 300 cm
		847000 M	**Bipolar High Frequency Cord,** for Martin and Berchtold coagulators, length 300 cm
		847000 V	**Bipolar High Frequency Cord,** for KARL STORZ AUTOCON® II 400 SCB systems (112, 114, 116, 122, 125) and Valleylab coagulators, length 300 cm

Please note:
All high frequency cords on this page are delivered with a length of 300 cm only.

HIGH FREQUENCY SURGERY UNITS

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Compatibility

High Frequency Cords to AUTOCON® HF Electrosurgical Units

KARL STORZ — ENDOSKOPE

AUTOCON® II 80	**20** 5308 20	–	**20** 5308 20	–	–
AUTOCON® II 200	**20** 5225 20 **20** 5225 20C **20** 5225 20-010 **20** 5225 20C010	–	**20** 5225 20 **20** 5225 20C **20** 5225 20-010 **20** 5225 20C010	–	–
AUTOCON® II 400 SCB	**20** 5352 20-111 **20** 5352 20-115	**20** 5352 20-112 **20** 5352 20-116	**20** 5352 20-122	**20** 5352 20-125 **20** 5352 21-125	**20** 5352 22-125 **20** 5352 23-125
Unipolar High Frequency Cords					
27806	●	–	●	●	●
27801	●	–	●	●	●
27806 UR	–	●	●	●	●
27806 US	–	●	●	●	●
26 5200 45	●	–	●	●	●
26 5200 46	●	–	●	●	●
26002 M	●	●	●	●	●
26005 M	●	–	●	●	●
26006 M	–	●	–	–	–
Bipolar High Frequency Cords					
26176 LE	●	–	●	●	●
26176 LV	–	●	●	●	●
847000 E	●	–	●	●	●
847000 V	–	●	●	●	●
Bipolar High Frequency Cords/Instruments to Multifunction Socket					
AUTOCON® II 400 SCB	**20** 5352 20-115	**20** 5352 20-116	–	**20** 5352 20-125 **20** 5352 21-125	**20** 5352 22-125 **20** 5352 23-125
20 5400 21	–	–	–	–	●
20 5400 22	–	–	–	–	●
20 5400 23	–	–	–	–	●

EXCERPT FROM

TELEPRESENCE

IMAGING SYSTEMS – DOCUMENTATION
ILLUMINATION – EQUIPMENT CARTS

- **Camera Systems**
  - **IMAGE 1 HUB™ HD**
    Brilliant Imaging FULL HD
  - NEW **KARL STORZ 3D System**
    Excellent Depth Perception in 3D
  - **TRICAM®**
  - NEW **TELE PACK VET X**
  - **TELECAM**
  - **Veterinary Video Camera III**
  - NEW **C-HUB™ and C-CAM™**
- **HD Imaging with Operating Microscopes**
- **Data Management and Documentation**
- **Monitors**
  - NEW **KARL STORZ FULL HD Monitors**
  - **KARL STORZ HD and HD WIDEVIEW™ Monitors**
  - **15" and 19" Touch Screens**
  - NEW **ZeroWire**
  - **VET Monitors**
- **Light Sources**
  - **HALOGEN**
  - NEW **LED**
  - **XENON**
- **SMARTCART Equipment Cart Series**
- **Components**
  Spare Parts

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KARL STORZ — ENDOSKOPE

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IMAGE 1 HUB™ HD
Brillant Imaging in FULL HD

KARL STORZ — ENDOSKOPE

CAMERA SYSTEMS

Brilliant Imaging in FULL HD

IMAGE1 HD

The 16:9 three-chip CCD system in the IMAGE1 FULL HD camera head captures images that can be displayed in natural format without being converted. The implemented progressive scan technology, therefore, enables natural and stress-free viewing of the endoscopic image.

To provide veterinarians with the ideal conditions for diagnosis, great emphasis was placed on both image quality and an optimal signal-to-noise ratio when designing the IMAGE1 camera head family. A low signal-to-noise ratio is guaranteed even with high light sensitivity, resulting in bright, crystal-clear and ultra-sharp images. The unique combination of easy handling and excellent image quality ensures time efficiency and high patient safety. Consequently, IMAGE1 FULL HD camera heads represent a further milestone in the evolution of endoscopic imaging.

- With a resolution of 1920 x 1080 pixels, IMAGE1 FULL HD camera heads capture ultra-sharp imaging with unsurpassed brilliance.
- The integrated Parfocal Zoom Lens ensures optical magnification and excellent rendition of details without information loss. Digital image processing delivers excellent image quality, even under difficult viewing conditions.
- Also available:
  Autoclavable FULL HD camera heads as well as FULL HD camera heads for perfusion diagnosis of tissue and organs with indocyanine green (ICG)

IMAGE1 FULL HD camera heads enable direct control of KARL STORZ units with the KARL STORZ Communication Bus (SCB). The camera, therefore, is the cornerstone of the endoscopic operating environment.

KARL STORZ FULL HD

Highest Standards for Image Input and Image Display

Maximum resolution and the consistent use of the 16:9 aspect ratio guarantee FULL HD.

Endoscopic and microscopic camera systems are equipped with three CCD sensors which support the 16:9 input format as well as capturing images with a resolution of 1920 x 1080 pixels.

These factors provide users with significantly better image definition and a correspondingly larger display window.

The benefits of High Definition Technology (HD) for medical applications are:

- Up to 6 times* higher input resolution of the camera delivers more detail and depth of focus.
- Using 16:9 format during image acquisition enlarges the field of vision and supports ergonomic viewing.
- The brilliant color rendition enables optimal diagnosis.
- Lateral view is enhanced by 32% when the endoscope is withdrawn slightly, providing the same image enhancement as a standard system. Any vertical information loss is restored and the lens remains clean.

The KARL STORZ FULL HD full-screen standard has the following resolution:
1080p (progressive); 1920 x 1080 pixels, 16:9 format
16:9 format for input and output!

Further formats available on the market with lower resolution or half-frames:
720p (progressive); 1280 x 720 pixels, 16:9 format
1080i (interlaced); 1920 x 1080 pixels, 16:9 format

The KARL STORZ standard for endoscopic imaging
In contrast to the frequently used interlaced method, the KARL STORZ 1080p HD progressive scan system delivers an extremely stable image, with no flickering or interference.
For medical users this improved image quality virtually eliminates the eye fatigue which can result from working with a monitor.

Image acquisition is a determining factor for resolution and a larger display window.

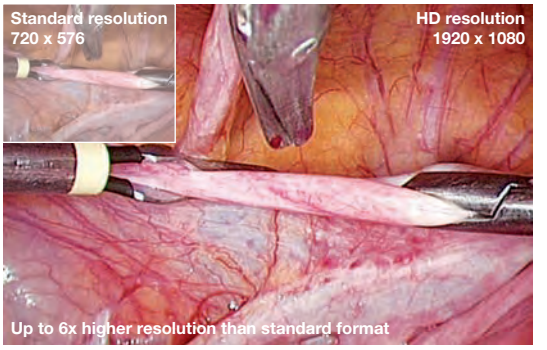
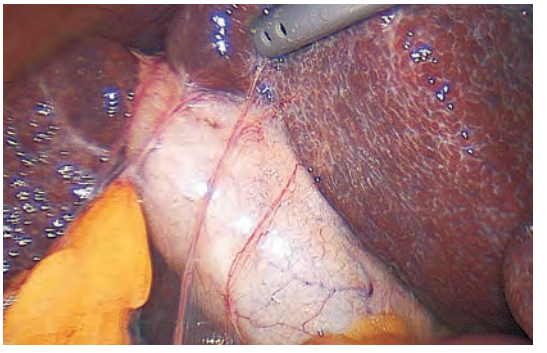


Image rendering in other systems

Interlaced scan (half-frame) displays 25/30* “half-frames” per second.

KARL STORZ image rendering

Progressive scan (full frame) displays 50/60* “full frames” per second.



* depending on the color system (PAL/NTSC) used

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IMAGE 1 HD

Ready for the future

Continuous improvement in standardization is a cornerstone of KARL STORZ camera systems. All IMAGE 1 HUB™ HD products are compatible with previous products, ensuring upward and downward compatibility and securing your investment in the future.

Image acquisition with KARL STORZ IMAGE1 HD

- The High Definition three-chip CCD in the IMAGE1 FULL HD camera head captures images in 16:9 format that can be displayed on WIDEVIEW monitors in the same format without being converted.
- Digital input guarantees the best possible image quality. This eliminates the need to convert analog input signals to digital output formats which can result in a loss of image quality.

IMAGE1 FULL HD Camera Head H3-Z with 16:9 three-CCD chip

IMAGE 1 HUB™ HD Camera Control Unit

- The update for the IMAGE1 CCU, combined with a new front panel and an extension of the plug-in slots on the back of the unit, enable all IMAGE1 users to experience the advantages of FULL HD.
- The full range of IMAGE1 functions are also available in the FULL HD system.
- **IMAGE 1 HUB™ HD with backward compatibility**
  All existing systems can continue to be used after upgrading the IMAGE1 system to FULL HD. Equipment modules and adaptations to existing infrastructures remain completely compatible.

IMAGE 1 HUB™ HD Camera Control Unit – Update of IMAGE1 CCU

FULL HD Monitor
Image format and image rendering determine quality

- Using 16:9 aspect ratio in place of the conventional 4:3 format provides a larger display window and demonstrably improves the viewing ergonomics.
- KARL STORZ FULL HD monitor produces the highest possible resolution of 1920 x 1080 pixels, providing medical users with improved depth of focus and color contrast for enhanced image quality.

KARL STORZ FULL HD Monitor

IMAGE 1 HUB™ HD

FULL HD Camera Control Unit

KARL STORZ — ENDOSKOPE

IMAGE 1 HD

222010 11U110 **IMAGE 1 HUB™ HD Camera Control Unit SCB, with ICM module**

for use with IMAGE1 FULL HD and IMAGE1 standard one- and three-chip camera heads, max. resolution 1920 x 1080 pixels, **with integrated ICM (Image Capture Module), KARL STORZ SCB** and digital Image Processing Module, color systems PAL/NTSC, power supply 100 – 240 VAC, 50/60 Hz

including:

Mains Cord

BNC/BNC Cable

S-Video (Y/C) Connecting Cable

Special RGBS Connecting Cable

2x **Connecting Cable,** for controlling peripheral units

DVI-D Connecting Cable

SCB Connecting Cable

Keyboard, with US English character set

2x **KARL STORZ USB Flash Drive,** 4 GB

222010 11U112 **IMAGE 1 HUB™ HD Camera Control Unit SCB, with SDI/ICM module**

for use with IMAGE1 FULL HD and IMAGE1 standard one- and three-chip camera heads, max. resolution 1920 x 1080 pixels, **with integrated ICM (Image Capture Module) and SDI (Serial Digital Interface) modules, KARL STORZ-SCB** and digital Image Processing Module, color systems PAL/NTSC, power supply 100 – 240 VAC, 50/60 Hz

including:

Mains Cord

BNC/BNC Video Cable

S-Video (Y/C) Connecting Cable

Special RGBS Connecting Cable

2x **Connecting Cable,** for controlling peripheral units

DVI-D Connecting Cable

SCB Connecting Cable

Keyboard, with US English character set

2x **KARL STORZ USB Flash Drive,** 4 GB

Further accessories for IMAGE 1 HUB™ HD see pages TP 19-20

Component Parts see COMPONENTS, SPARE PARTS

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IMAGE 1 HUB™ HD

FULL HD Camera Control Unit

KARL STORZ — ENDOSKOPE

IMAGE 1 HD

22 2010 11U1 **IMAGE 1 HUB™ HD Camera Control Unit SCB**

for use with IMAGE1 FULL HD and IMAGE1 standard one- and three-chip camera heads, max. resolution 1920 x 1080 pixels, with integrated **KARL STORZ-SCB** and integrated digital Image Processing Module, color systems PAL/NTSC, power supply 100 – 240 VAC, 50/60 Hz

including:

Mains Cord

BNC/BNC Video Cable

S-Video (Y/C) Connecting Cable

Special RGBS Connecting Cable

2x **Connecting Cable,** for controlling peripheral units

DVI-D Connecting Cable

SCB Connecting Cable

Keyboard, with US English character set

22 2010 11U102 **IMAGE 1 HUB™ HD Camera Control Unit SCB, with SDI Module**

for use with IMAGE1 FULL HD and IMAGE1 standard one- and three-chip camera heads, max. resolution 1920 x 1080 pixels, **with integrated SDI (Serial Digital Interface) module, KARL STORZ-SCB** and integrated Image Processing Module, color systems PAL/NTSC, power supply 100 – 240 VAC, 50/60 Hz

including:

Mains Cord

BNC/BNC Video Cable

S-Video (Y/C) Connecting Cable

Special RGBS Connecting Cable

2x **Connecting Cables,** for controlling peripheral units

DVI-D Connecting Cable

SCB Connecting Cable

Keyboard, with US English character set

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Further accessories for IMAGE 1 HUB™ HD see pages TP 19-20

Component Parts see COMPONENTS, SPARE PARTS

IMAGE 1 HUB™ HD

FULL HD Camera Control Unit

KARL STORZ — ENDOSKOPE

IMAGE 1 HD

Specifications:

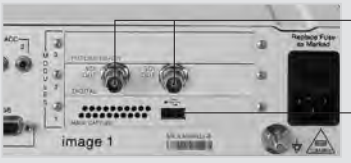
Signal-to-Noise Ratio	IMAGE 1 HUB™ HD, three-chip camera systems ≥ 60 dB
AGC	Microprocessor-controlled
Video Output	- FULL HD signal to DVI-D socket (2x) - SDI signal to BNC socket (only IMAGE 1 HUB™ HD with SDI module) (2x) - RGBS signal to D-Sub socket - S-Video an 4-pol. Mini-DIN-Buchse (2x) - Composite signal to BNC socket
Input	Keyboard for title generator, 5-pin DIN socket

Control Output /Input	- KARL STORZ-SCB at 6-pin Mini-DIN socket (2x) - 3.5 mm stereo jack plug (ACC 1, ACC 2), - Serial port at RJ-11 - USB port (only IMAGE 1 HUB™ HD with ICM) (2x)
Dimensions w x h x d	305 x 89 x 335 mm
Weight	3.35 kg
Power Supply	100-240 VAC, 50/60 Hz
Certified to	IEC 601-1, 601-2-18, CSA 22.2 No. 601, UL 2601-1 and CE acc. to MDD, protection class 1/CF defibrillation-safe

ICM: 2x USB outputs (1x printer output on rear panel, 1x storage medium on the front panel)

SDI: 2x outputs

Additional Modules:



SDI: **Serial Digital Interface**
optimized for medical display on flat screens, routing with OR1™ and digital recording with AIDA-DVD-M

ICM: **ICM**
USB connection for recording still images and video sequences on a USB storage medium or to connect to a USB printer for printing recorded still images directly.
Compatible printers:
KARL STORZ USB Printer 549 M

Recommended storage media:

KARL STORZ 4 GB USB Flash Drive **20** 0402 81

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Further accessories for IMAGE 1 HUB™ HD see pages TP 19-20

22 2020 11U110 **IMAGE1 HD Camera Control Unit SCB, with ICM module**

for use with IMAGE1 FULL HD three-chip camera heads, max. resolution 1920 x 1080 pixels, **with integrated ICM (Image Capture Module), KARL STORZ-SCB** and digital Image Processing Module, power supply 100 – 240 VAC, 50/60 Hz

including:

Mains Cord

2x **Connecting Cable,** for controlling peripheral units

DVI-D Connecting Cable

SCB Connecting Cable

Keyboard, with US English character set

2x **KARL STORZ USB Flash Drive,** 4 GB

22 2020 11U1 **IMAGE1 HD Camera Control Unit SCB**

for use with IMAGE1 FULL HD three-chip camera heads, max. resolution 1920 x 1080 pixels, with integrated **KARL STORZ-SCB** and digital Image Processing Modul, power supply 100 – 240 VAC, 50/60 Hz

including:

Mains Cord

2x **SCB Connecting Cable**

DVI-D Connecting Cable

Connecting Cable, for controlling peripheral units

Keyboard, with US English character set

Further accessories for IMAGE1 HD see pages TP 19-20

Component Parts see COMPONENTS, SPARE PARTS

IMAGE1 HD NEW

FULL HD Camera Control Unit

KARL STORZ — ENDOSKOPE

IMAGE1 HD

Specifications:

Signal-to-noise ratio	IMAGE1 HD, three-chip camera systems ≥ 60 dB
AGC	Microprocessor-controlled
Video output	FULL HD signal to DVI-D socket
Input	Keyboard for title generator, 5-pin DIN socket
Control output /input	- USB Port (only IMAGE1 HD with ICM) (2x) - Serial port at RJ-11 - 3.5 mm stereo jack plug (ACC 1, ACC 2) - KARL STORZ-SCB at 6-pin Mini-DIN socket (2x)

Dimensions w x h x d	305 x 89 x 335 mm
Weight	3.35 kg
Power supply	100-240 VAC, 50/60 Hz
Certified to	IEC 601-1, 601-2-18, CSA 22.2 No. 601, UL 2601-1 and CE acc. to MDD, protection class 1/CF defibrillation-safe

ICM: 2x USB outputs (1x printer output on rear panel, 1x storage medium on the front panel)

Additional Modules :

ICM

USB connection for recording still images and video sequences on a USB storage medium or to connect to a USB printer for printing recorded still images directly.
Compatible printers:
KARL STORZ USB Printer 549 M

Recommended storage media:

KARL STORZ 4 GB USB Flash Drive **20** 0402 81

2-12

Further accessories for IMAGE1 HD see pages TP 19-20

IMAGE1 FULL HD Camera Heads NEW

for Endoscopy

KARL STORZ — ENDOSKOPE

For use with IMAGE 1 HUB™ HD Camera Control Unit SCB 22 2010 11U1xx and IMAGE1 HD Camera Control Unit SCB 22 2020 11U1xx

22 2200 55-3

22 2200 55-3	**50 Hz** **60 Hz**	**IMAGE1 H3-Z** **Three-Chip FULL HD Camera Head**

max. resolution 1920 x 1080 pixels, progressive scan, soakable, gas- and plasma-sterilizable, with integrated Parfocal Zoom Lens, focal length f = 15 – 31 mm (2x), 2 freely programmable camera head buttons, for use with color systems **PAL/NTSC**

Specifications:

IMAGE1 FULL HD Camera Head	**H3-Z**
50/60 Hz	**22** 2200 55-3
Image sensor	3x ⅓" CCD chip
Pixel output signal H x V	1920 x 1080
Dimensions (w x h x d)	39 x 49 x 114 mm
Weight	270 g
Optical interface	integrated Parfocal Zoom Lens, f = 15-31 mm (2x)
Min. sensitivity	F 1.4/1.17 Lux
Grip mechanism	standard eyepiece adaptor
Cable	non-detachable
Cable length	300 cm

Further accessories for IMAGE1 FULL HD see pages TP 19-20

IMAGE1 FULL HD Camera Heads NEW

for Endoscopy

KARL STORZ — ENDOSKOPE

For use with IMAGE 1 HUB™ HD Camera Control Unit SCB 22 2010 11U1xx and IMAGE1 HD Camera Control Unit SCB 22 2020 11U1xx

IMAGE1 HD

22 2200 61-3

22 2200 61-3	**50 Hz** **60 Hz**	**IMAGE1 H3-ZA** **Three-Chip FULL HD Camera Head**

autoclavable, max. resolution 1920 x 1080 pixels, progressive scan, soakable, gas- and plasma-sterilizable, with integrated Parfocal Zoom Lens, focal length f = 15 – 31 mm (2x), 2 freely programmable camera head buttons, for use with color systems **PAL/NTSC**

22 2200 60-3

22 2200 60-3	**50 Hz** **60 Hz**	**IMAGE1 H3-FA** **Three-Chip FULL HD Camera Head**

autoclavable, max. resolution 1920 x 1080 pixels, progressive scan, soakable, gas- and plasma-sterilizable, **fixed focus,** focal length f = 17 mm, 2 freely programmable camera head buttons, for use with color systems **PAL/NTSC**

Specifications:

IMAGE1 FULL HD Camera Heads	**H3-ZA**	**H3-FA**
50/60 Hz	**22** 2200 61-3 (PAL/NTSC)	**22** 2200 60-3 (PAL/NTSC)
Image sensor	3x ⅓" CCD chip	3x ⅓" CCD chip
Pixel Output signal H x V	1920 x 1080	1920 x 1080
Dimensions (w x h x d)	39 x 49 x 100 mm	39 x 49 x 93 mm
Weight	299 g	261 g
Optical interface	Integrated Parfocal Zoom Lens, f = 15-31 mm	fixed focus f = 17 mm
Min. sensitivity	F 1.4/1.17 Lux	F 1.4/1.17 Lux
Grip mechanism	Standard eyepiece adaptor	standard eyepiece adaptor
Cable	non-detachable	non-detachable
Cable length	300 cm	300 cm

Further accessories for IMAGE1 FULL HD see pages TP 19-20

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IMAGE1 FULL HD Camera Heads

NEW

for Microscopy and ICG Application

KARL STORZ — ENDOSKOPE

For use with IMAGE 1 HUB™ HD Camera Control Unit SCB 22 2010 11U1xx and IMAGE1 HD Camera Control Unit SCB 22 2020 11U1xx

22 2200 54-3

22 2200 54-3	**50 Hz** **60 Hz**	**IMAGE1 H3-M COVIEW® Three-Chip FULL HD Microscope Camera Head**

max. resolution 1920 x 1080 pixels, progressive scan, with C-MOUNT thread for coupling to microscopes, 2 freely programmable camera head buttons, with detachable camera head cable, length 900 cm, for use with color systems **PAL/NTSC**

22 2200 85-3

22 2200 85-3	**50 Hz** **60 Hz**	**IMAGE1 H3-Z FI Three-Chip ICG FULL HD Camera Head**

for perfusion diagnosis of tissue and organs with indocyanine green (ICG) in conjunction with light source D-LIGHT P, max. resolution 1920 x 1080 pixels, progressive scan, with integrated Parfocal Zoom Lens, focal length f = 15 – 31 mm (2x), with 2 freely programmable camera head buttons, for use with color systems **PAL/NTSC**

Specifications:

IMAGE1 FULL HD Camera Heads	H3-M COVIEW®	H3-Z FI
50/60 Hz	**22** 2200 54-3 (PAL/NTSC)	**22** 2200 85-3 (PAL/NTSC)
Image sensor	3x ⅓" CCD chip	3x ⅓" CCD chip
Pixel Output signal H x V	1920 x 1080	1920 x 1080
Dimensions (w x h x d)	45 x 50 x 60 mm	39 x 49 x 114 mm
Weight	240 g	246 g
Optical interface	C-MOUNT connection	Integrated Parfocal Zoom Lens, f = 15-31 mm (2x)
Min. sensitivity	F 1.9/1.4 Lux	F 1.4/1.17 Lux
Grip mechanism	C-MOUNT connection	standard eyepiece adaptor
Cable	detachable	non-detachable
Cable length	900 cm	300 cm

Components for connecting the H3-M COVIEW® camera head to operating microscopes
see complete TELEPRESENCE catalog

Further accessories for IMAGE1 FULL HD see pages TP 19-20

IMAGE1 Camera Heads

For use with IMAGE 1 HUB™ HD Camera Control Unit SCB 22 2010 11U1xx

22 2200 33-3 / **22** 2201 33-3

22 2200 33-3	**PAL**	**IMAGE1 F3 Three-Chip ENT and Arthroscopy Camera Head**
22 2201 33-3	**NTSC**	

color systems **PAL/NTSC,** soakable, gas-sterilizable, fixed focus
f = 16.8 mm, 2 freely programmable camera head buttons

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Further accessories for IMAGE1 see pages TP 19-20

	20 2002 31	**Keyboard,** with German character set, PS/2 connector, including AT-adaptor and protective cover
	20 2002 31F	**Same,** with French character set
	20 2002 31I	**Same,** with Italian character set
	20 2002 31P	**Same,** with Portuguese character set
	20 2002 31S	**Same,** with Spanish character set
	20 2002 31U	**Same,** with US English character set
	20 0402 45DE	**Silicone Keyboard,** with German character set, DIN AT connector, IP 68
	20 0402 45FR	**Same,** with French character set
	20 0402 45IT	**Same,** with Italian character set
	20 0402 45PT	**Same,** with Portuguese character set
	20 0402 45ES	**Same,** with Spanish character set
	20 0402 45US	**Same,** with US English character set
	22 2200 72	**IMAGE 1 HUB™ HD Extension Cable,** length 520 cm, for use with IMAGE1 HD camera heads (except H3-M/H3-M COVIEW® FULL HD microscope camera heads)
	22 2001 70	**IMAGE1 SD Extension Cable,** length 760 cm, for use with IMAGE1 standard camera heads
	22 2200 70	**IMAGE1 HD Camera Head Cable,** length 300 cm, for use with H3-M/H3-M COVIEW® FULL HD Microscope Camera Heads **22** 2200 54-3 and **22** 2201 54-3 (spare part)
	22 2200 71	**IMAGE1 HD Camera Head Cable,** length 900 cm, for use with H3-M/H3-M COVIEW® FULL HD Microscope Camera Heads **22** 2200 54-3 and **22** 2201 54-3 (spare part)
	22 2000 77	**Video Endoscope Adaptor,** color systems **PAL/NTSC,** length 90 cm, for use with GI CCU and IMAGE1

39301 Z3TS **Plastic Container for Sterilization and Storage** of camera heads **IMAGE1 H3-Z, H3-ZA and H3-FA**, **autoclavable,** suitable for use with steam, gas and hydrogen peroxide sterilization, Sterrad® compatible, external dimensions (w x d x h): 385 x 255 x 75 mm

Please note: The instrument displayed is not included in the plastic container.

Only camera heads marked “autoclave” can be placed in the tray for steam sterilization.

NEW 39301 PHTS **Plastic Container for Sterilization and Storage** of camera heads **IMAGE1 H3-P and H3-ZI, autoclavable,** suitable for use with steam, gas and hydrogen peroxide sterilization, Sterrad® compatible, external dimensions (w x d x h): 385 x 255 x 75 mm

Please note: The instrument displayed is not included in the plastic container.

Only camera heads marked “autoclave” can be placed in the tray for steam sterilization.

39301 ACT **Plastic Container for Sterilization and Storage,** of camera heads IMAGE1 P3, TRICAM® and TELECAM, **autoclavable,** for use with steam, gas and plasma sterilization

Please note: The instrument displayed is not included in the plastic container.

Only camera heads marked “autoclave” can be placed in the tray for steam sterilization.

(not usable with IMAGE1 FULL HD camera heads)

20 0141 30 **One-Pedal Footswitch,** one-stage, for freeze frame or video recording in combination with IMAGE 1 HUB™ **22** 2010 20-110/-112 and **22** 2000 20-112

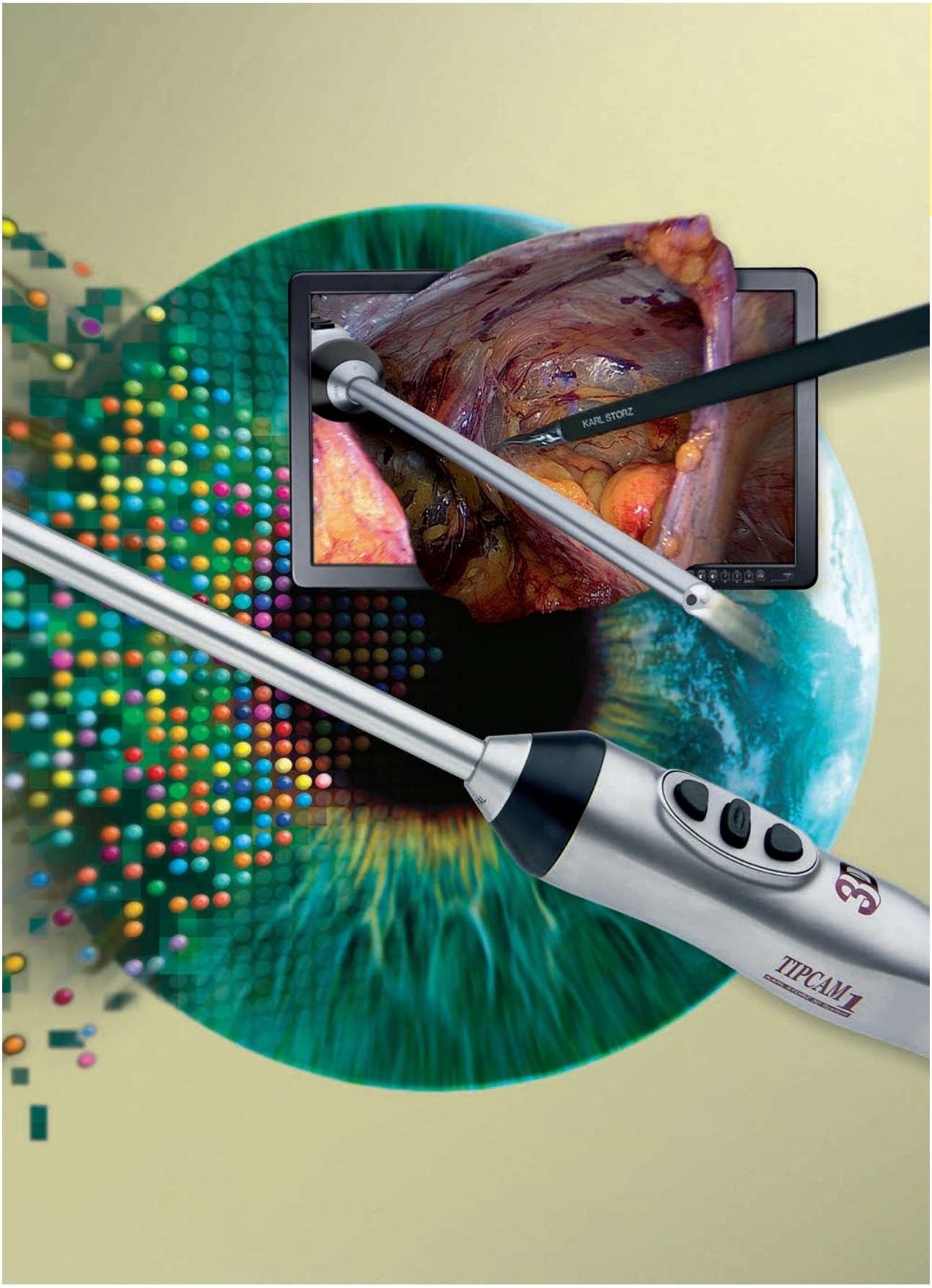
20 2330 70 **Adaptor ACC 1,** for Footswitch **20** 0141 30

NEW **20** 0402 81 **KARL STORZ USB Flash Drive,** 4 GB

2-12

KARL STORZ 3D System NEW

KARL STORZ — ENDOSKOPE



The KARL STORZ 3D System NEW

Discover a New World in 3D

KARL STORZ — ENDOSKOPE

Exact depth perception inside the patient's body is essential for any endoscopic procedure. The KARL STORZ 3D system offers the surgeon excellent depth of field combined with outstanding hand-eye coordination. This first-class steroscopic imaging system is particularly valuable for activites such as suturing and knotting that demand a high degree of spatial perception. The KARL STORZ 3D system ensures accurate positioning with minimal fatigue and, therefore, leads to significant improvements in surgical efficiency and patient safety in the OR.

The 3D TIPCAM®1 design is based on the 0° endoscope with mounted camera head. The system can be used like a normal endoscope, which simplifies work for the user. Light and data cables are placed at the proximal end of the endoscope to provide the surgeon with additional flexibility.

Its slender and lightweight design makes the 3D endoscope an excellent instrument. Combined with an ergonomic handle, the 3D TIPCAM®1 with integrated endoscope opens up a whole new dimension in stereoscopic imaging without compromising ease of use.

Two image sensors at the distal end of the 3D TIPCAM®1 are precisely aligned mechanically. Complemented by precise electronics in the endoscope and camera control unit, the system generates endoscopic 3D images that are true to life. Combined with the latest generation of 3D monitors, this system offers the surgeon a complete system that reduces fatigue to a minimum even after long hours of surgery.

KARL STORZ 3D glasses

distal sensor chips

3D TIPCAM®1

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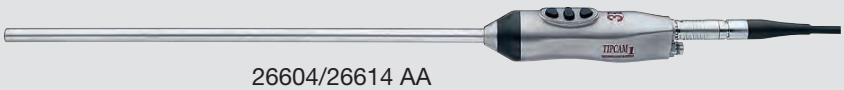
22 2040 11U114	**3D Camera Control Unit SCB, with ICM Module**

max. resolution 1920 x 1080 pixels, **with integrated ICM (Image Capture Module)** and **KARL STORZ-SCB,** power supply 100 – 240 VAC, 50/60 Hz

including:

Mains Cord
BNC/BNC Video Cable
S-Video (Y/C) Connecting Cable
2x **Connecting Cable,** for controlling peripheral units
DVI-D Connecting Cable
SCB Connecting Cable
Silicone Keyboard, with US English character set
2x **KARL STORZ Flash Drive,** 4 GB
8x **KARL STORZ 3D Glasses**

For use with KARL STORZ 3D Camera Control Unit SCB 22 2040 11-114



26604/26614 AA

26604 AA	**PAL**	**3D TIPCAM®1**
26614 AA	**NTSC**	

with two distal CCD image sensors, direction of view 0°, diameter 10 mm, length 31 cm, for use with KARL STORZ 3D Camera Control Unit SCB **22** 2040 11U114

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Further accessories for KARL STORZ 3D System see page TP 25

Component Parts see COMPONENTS, SPARE PARTS

KARL STORZ 3D System NEW

3D Monitors

9832 NB-3D

9832 NB-3D	**32" 3D Monitor**

wall-mounted with VESA 200 adaption, with integrated power supply, color systems **PAL/NTSC,** max. screen resolution 1920 x 1080, image fomat 16:9, power supply 100 – 240 VAC, 50/60 Hz

9824 NB-3D

9824 NB-3D	**24" 3D Monitor**

wall-mounted with VESA 100 adaption, color systems **PAL/NTSC,** max. screen resolution 1920 x 1200, image fomat 16:10, power supply 100 – 240 VAC, 50/60 Hz

9832 SF	**Pedestal,** for 3D Monitor 9832 NB-3D
9526 SF	**Pedestal,** for 95xx and 97xx series and 3D Monitor 9824 NB-3D
9832 A	**Adaptor Plate,** VESA 200 to VESA 100, for 3D Monitor 9832 NB-3D, for fixation to the VESA 100 holding systems

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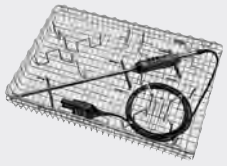
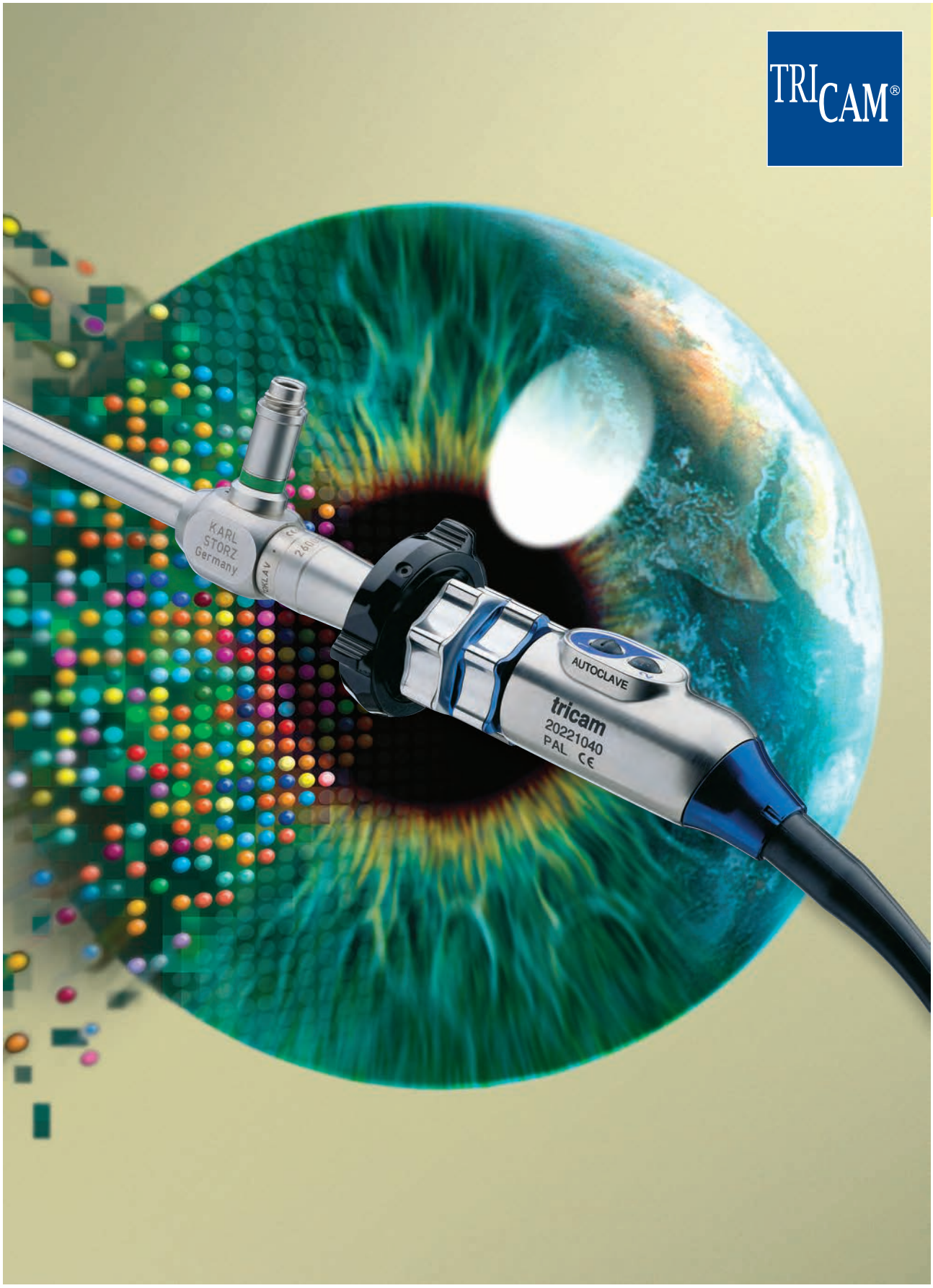
	20 0402 45DE	**Silicone Keyboard,** with German character set, DIN AT connector, IP 68
	20 0402 45FR	**Same,** with French character set
	20 0402 45IT	**Same,** with Italian character set
	20 0402 45PT	**Same,** with Portuguese character set
	20 0402 45ES	**Same,** with Spanish character set
	20 0402 45US	**Same,** with US English character set
	39501 TC	**Wire Tray for Cleaning, Sterilization and Storage** of 3D TIPCAM®1 266x4 AA, **autoclavable,** incl. compartment for light cable, external dimensions (w x d x h): 480 x 320 x 75 mm
	20 0402 81	**KARL STORZ USB Flash Drive,** 4 GB
	9800 G	**3D Glasses,** passive, circularly polarized, package of 8
	9800 C	**3D Clip-on Glasses,** circularly polarized
	495 TIP	**Fiber Optic Light Cable,** highly heat resistant, diameter 4.8 mm, length 300 cm, optimized for 3D TIPCAM®1 and TIPCAM®
	20 0200 81	**TROLL-E Mobile Stand,** rides on 4 antistatic dual wheels, 2 equipped with locking brakes, for mounting TFT monitors with VESA 75/100 connection, integrated cable conduit in vertical beam, 1 shelf and cable manager, load capacity for monitor: max. 15 kg, Dimensions: Mobile stand: 670 x 1660 x 670 mm (w x h x d), Shelf: 455 x 350 mm (w x d), caster diameter: 100 mm Trolley is delivered unassembled.

CAMERA SYSTEMS

TRICAM® – Three-Chip Camera System

KARL STORZ — ENDOSKOPE

CAMERA SYSTEMS



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TRICAM® SL II

Three-Chip Camera System, Color Systems PAL/NTSC, Digital Imaging Processor

KARL STORZ — ENDOSKOPE

TRICAM® SL II is the endoscopic video platform offered by KARL STORZ for all endoscopically-assisted applications and video display of the highest image quality.

Thanks to its ergonomic, compact design, this CCD sensor technology separates the optical image of the 3-CCD image sensor into the three primary colors by means of a specially coated color prism.

Each individual CCD sensor receives a specific color with the maximum line representation.

The separate processing of the primary color information red, green, and blue means that all colors can be optimally captured with this process. Furthermore, the use of all three CCD sensors offers up to three times more detail enhancement.

TRICAM® SL II offers a high degree of optoelectronic accuracy and precision.

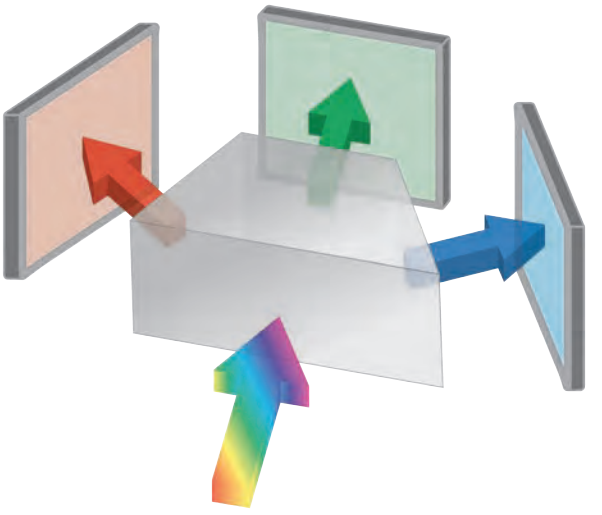
Signals are processed by means of a digital image processor. The endoscopic image is produced true to the original image. The image processor also assumes automatic image optimization during continuously changing illumination and color conditions. Manual adjustment is therefore no longer necessary.

The user has several pre-assigned digital-optimization-filters at his disposal for adjustment to rigid, semi-rigid and flexible endoscopes at the touch of a button.

Video outputs such as Digital-Video (DV) and all analog signal variations are an integral feature of **TRICAM® SL II** standard equipment.

Special Features:

- **Best image quality and display due to 3-CCD sensor chip technology**
- **Enhanced signal quality through Digital Signal Processing (contrast and filter enhancement for rigid, semirigid and flexible endoscopes)**
- **Optimal image size display, regardless of the telescope used, thanks to patented Parfocal Optical Zoom Lens**
- **Simplified operation reduces camera movement to, e.g., prevent damage to or soiling of the lens**
- **Consistent illumination due to the auto-exposure system ensures seamless transitions between images, regardless of imaging area or available light**
- **Functionality at the touch of a button with easy-to-program operating elements via intuitive control of all functions in the sterile area**
- **Parameters of the OR equipment used, light sources, etc. can be displayed and controlled (KARL STORZ Communication Bus) on the monitor**
- **Digital video output (DV) for digital recording**
- **Digital zoom 1 – 2x can be adjusted to 4 levels**
- **“Freeze Frame” function can be activated via camera head buttons or an external footswitch**
- **Fluorescence imaging mode available**



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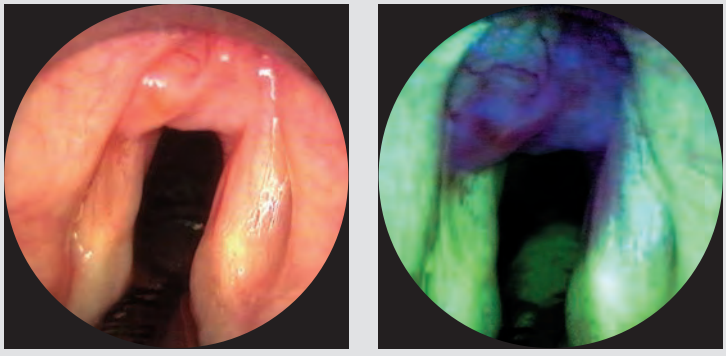
20 2230 11U1 **TRICAM® SL II Camera Control Unit SCB**

color systems **PAL/NTSC,** with **KARL STORZ-SCB** and integrated digital Image Processing Module,
power supply 100 – 240 VAC, 50/60 Hz

including:

Mains Cord
Keyboard, with US English character set
2x **Connecting Cable,** for controlling peripheral units
BNC/BNC Video Cable
S-Video (Y/C) Connecting Cable
Special RGBS Connecting Cable
SCB Connecting Cable
DV Connecting Cable, 6 pin to 4 pin



Photodynamic Diagnosis (PDD) with D-LIGHT light sources, left: white light, right: blue light

Specifications:

Video output	- RGBS signal to 4x BNC sockets - S-Video signal to 4 pin Mini-DIN socket (2x) - Composite signal at BNC socket - DV signal to 6 pin DV socket
Input	keyboard input for character generator and control functions, 6-pin Mini-DIN socket
Control out/input	KARL STORZ-SCB to 6 pin Mini-DIN socket (2x), 3.5 mm stereo jack plug (ACC 1, ACC 2)

Camera Control Unit (CCU)	dimensions: 305 x 88 x 254 mm (w x h x d)
Weight	2.7 kg
Power supply	100-240 VAC, 50/60 Hz
Certified to	IEC 601-1, 601-2-18, CSA 22.2 No. 601, UL 2601, and CE acc. to MDD, protection class 1/BF

Further accessories for TRICAM® SL II see page TP 32
Component Parts see COMPONENTS, SPARE PARTS

For use with TRICAM® SL II Camera Control Unit SCB 20 2230 11U1

20 2210 40 / **20** 2211 40

20 2210 40	**PAL**	**TRICAM®**
20 2211 40	**NTSC**	**Three-Chip Camera Head**

color systems **PAL/NTSC, autoclavable,** soakable, gas-sterilizable, with integrated Parfocal Zoom Lens, f = 14 – 28 mm (2x), 2 freely programmable camera head buttons, including Plastic Container for Sterilization and Storage 39301 ACT

20 2210 30 / **20** 2211 30

20 2210 30	**PAL**	**TRICAM®**
20 2211 30	**NTSC**	**Three-Chip Camera Head**

color systems **PAL/NTSC,** soakable, gas-sterilizable, integrated Parfocal Zoom Lens, f = 25 – 50 mm (2x), 2 freely programmable camera head buttons

Note: All camera heads can be disinfected by soaking in suitable solution, or sterilized in gas. The use of a sterile cover is recommended (see page TP 51).
In addition, camera heads **20** 2210 40 and **20** 2211 40 are autoclavable up to 134 °C.

Further accessories for TRICAM® SL II see page TP 32

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For use with TRICAM® SL II Camera Control Unit SCB 20 2230 11U1

20 2210 39 / **20** 2211 39

20 2210 39	**PAL**	**TRICAM® PDD Three-Chip Pendulum Camera Head**
20 2211 39	**NTSC**	

color systems **PAL/NTSC,** soakable, gas-sterilizable,
with pendulum system and fixed focus, f = 14 mm,
2 freely programmable camera head buttons,
for photodynamic early diagnosis

20 2210 37 / **20** 2211 37

20 2210 37	**PAL**	**TRICAM® PDD Three-Chip Camera Head**
20 2211 37	**NTSC**	

color systems **PAL/NTSC,** soakable, gas-sterilizable,
with integrated Parfocal Zoom Lens, f = 25 – 50 mm (2x),
2 freely programmable camera head buttons,
for photodynamic early diagnosis

Specifications:

TRICAM® Camera Heads	Three-Chip Camera Head, autoclavable	Three-Chip Camera Head	PDD Three-Chip Pendulum Camera Head	PDD Three-Chip Camera Head
PAL	**20** 2210 40	**20** 2210 30	**20** 2210 39	**20** 2210 37
NTSC	**20** 2211 40	**20** 2211 30	**20** 2211 39	**20** 2211 37
Image sensor	3x ¼" CCD chip	3x ½" CCD chip	3x ¼" CCD chip	3x ½" CCD chip
Pixels output signal H x V	752 x 582 (PAL) 768 x 494 (NTSC)	752 x 582 (PAL) 768 x 494 (NTSC)	752 x 582 (PAL) 768 x 494 (NTSC)	752 x 582 (PAL) 768 x 494 (NTSC)
Resolution (horizontal)	min. 750 lines	min. 750 lines	min. 750 lines	min. 750 lines
Dimensions	diameter 28-33 mm, length 97 mm	37 x 47 mm, length 124 mm	diameter 29-37 mm, length 117 mm	37 x 47 mm, length 124 mm
Weight	195 g	240 g	170 g	240 g
Min. sensitivity	F 1.4/3 Lux	F 1.4/3 Lux	F 1.4/3 Lux (standard)	F 1.4/3 Lux (standard)
Lens	integrated Parfocal Zoom Lens, f = 14-28 mm	integrated Parfocal Zoom Lens, f = 25-50 mm	pendulum System, fixed Focus, f = 14 mm	integrated Parfocal Zoom Lens, f = 25-50 mm
Grip mechanism	standard eyepiece adaptor	standard eyepiece adaptor	standard eyepiece adaptor	standard eyepiece adaptor

Further accessories for TRICAM® SL II see page TP 32

TRICAM® SL II

Optional Accessories

20 2002 31 **Keyboard,** with German character set, PS/2 connector, including AT-adaptor and protective cover
20 2002 31F **Same,** with French character set
20 2002 31I **Same,** with Italian character set
20 2002 31P **Same,** with Portuguese character set
20 2002 31S **Same,** with Spanish character set
20 2002 31U **Same,** with US English character set

20 0402 45DE **Silicone Keyboard,** with German character set, DIN AT connector, IP 68
20 0402 45FR **Same,** with French character set
20 0402 45IT **Same,** with Italian character set
20 0402 45PT **Same,** with Portuguese character set
20 0402 45ES **Same,** with Spanish character set
20 0402 45US **Same,** with US English character set

20 2202 70 **TRICAM® SL II Extension Cable,** length 600 cm

39301 ACT **Plastic Container for Sterilization and Storage,** of camera heads IMAGE1 P3, TRICAM® and TELECAM, **autoclavable,** for use with steam, gas and plasma sterilization

Please note: The instrument displayed is not included in the plastic container.

Only camera heads marked “autoclave” can be placed in the tray for steam sterilization.

(except IMAGE1 FULL HD camera heads)

20 2330 70 **Adaptor ACC 1,** for Footswitch **20** 0141 30, for freeze function with TELECAM DX II, TELECAM SL II and TRICAM® SL II
20 0141 30 **One-Pedal Footswitch,** digital, one-stage

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TELE PACK VET X Compact System and TELECAM One-Chip Camera System

KARL STORZ — ENDOSKOPE

TELE PACK VET X NEW

A multipurpose unit for diagnostic and surgical procedures including still image and video capture software.

KARL STORZ — ENDOSKOPE

TELE PACK VET X is a compact, portable and flexible system that has been developed for use in a large number of fields. It can be used in veterinary hospitals as well as for mobile practice. TELE PACK VET X is widly used for various applications such as gastrointestinal endoscopy, bronchoscopy, laparoscopy, arthroscopy, otoscopy and exotic animal endoscopy among others.

To enable swift and easy work, TELE PACK VET X combines all that is needed: monitor, camera, light source and insufflation pump. Consideration has also been given to documentation: Integrated data management enables comprehensive recording of examinations or surgical interventions. Multiple USB ports and an SD card slot are available to store the data.

Crystal clear display
- **15" LCD display**
- **Image rotation**
- **24-bit color intensity for natural color rendition**
- **DVI-D video output for connecting HD monitors**

Flexible storage possibilities
- **SD card slot for high storage capacity**
- **USB ports for external hard drives, USB flash drives and post-script printers**
- **Picture gallery for records**
- **Playback of saved videos**
- **Print-ready patient report documentation**

Natural illumination
- **HiLux 50 Watt high-performance light source**
- **Natural colour rendition close to daylight with a color temperature of 5700 K**
- **Up to 1000 hours lamp operating time**

Easy control combined with highest safety
- **Membrane keyboard for wipe-down disinfection**
- **Hot keys for rapid and direct adjustment**
- **Arrow keys for intuitive control**
- **Connection socket for pedal control**

Additional information
- **Sturdy, portable housing**
- **Ergonomically designed handle for convenient transport**
- **Universal power supply unit: 100 – 240 VAC, 50/60 Hz**
- **Dimensions (w x h x d): 450 x 350 x 150 mm**
- **Weight: 7 kg**

2-12

TELE PACK VET X NEW

A multipurpose unit for diagnostic and surgical procedures including still image and video capture software.

KARL STORZ — ENDOSKOPE

69 0450 01	**TELE PACK VET X**

endoscopic video unit for use with all KARL STORZ TELECAM one-chip camera heads, Veterinary Video Camera Head and video endoscopes, incl. 50 W Hi-Lux light source, with integrated insufflation pump and digital Image Processing Module, 15" LCD monitor, USB/SD memory module, color systems PAL/NTSC, power supply 100 – 240 VAC, 50/60 Hz

including:

USB Flash Drive

Mains Cord

Mains Cord, US plug

Case

69 0450 02	**Same**

without **Case**

Optional Accessories:

20 0141 30	**One-Pedal Footswitch,** digital, one-stage, for irrigation
20 0402 80	**KARL STORZ USB Flash Drive,** 4 GB
495 KS	**Adaptor,** for standard KARL STORZ fiber optic light cables (not 495 NCS) to KARL STORZ XENON 100 SCB
81131021	**Spare Lamp,** 50 W
20 0402 40DE	**Silicone Keyboard,** with German character set, USB plug, with touchpad
20 0402 40US	**Same,** with US English character set
20 0402 40PT	**Same,** with Portuguese character set
20 0402 40ES	**Same,** with Spanish character set
20 0402 40FR	**Same,** with French character set
20 0402 40RU	**Same,** with Russian character set
20 0402 40IT	**Same,** with Italian character set

Specifications:

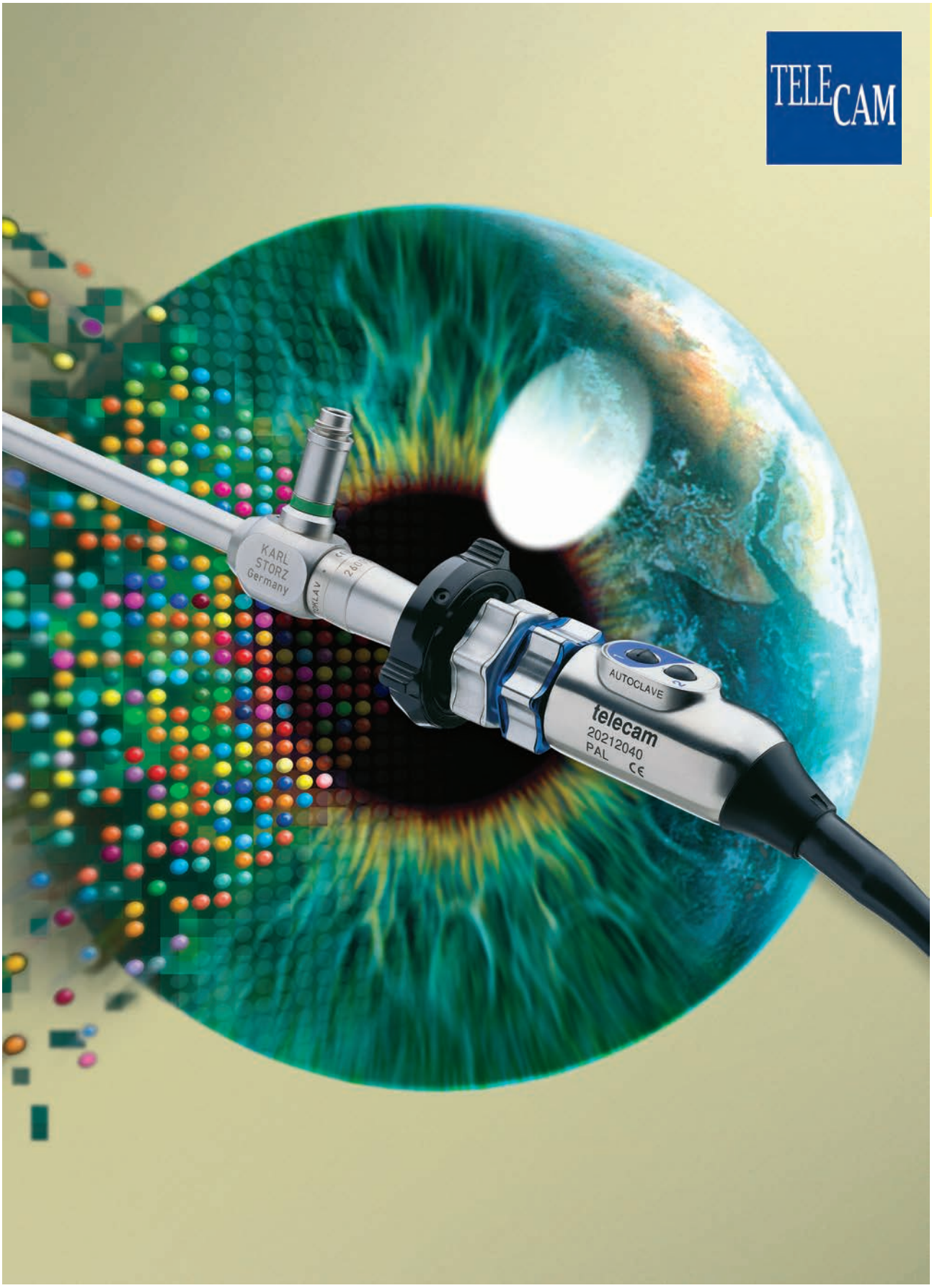
Power supply	100-240 VAC, 50/60 Hz/12VDC
Dimensions w x h x d	450 x 350 x 150 mm
Weight	7.3 kg
Ergonomic carry handle Documentation interface	USB 2.0, SD- memory card

Video out- /input	DVI-D in/out (XGA)
Audio	3,5mm plug, 2 x Microphone, Line-in, Line-out
Interface for printing	USB 2.0
Flow non-regulated:	max. 3.5l/min
Pressure non -regulated:	max. 760 mmHG

Component Parts see COMPONENTS, SPARE PARTS

CAMERA SYSTEMS

KARL STORZ — ENDOSKOPE



TELECAM

One-Chip Camera System, Color Systems PAL/NTSC, Digital Imaging Processor

KARL STORZ — ENDOSKOPE

Multifunctional, Cost-Effective Camera System for Veterinary Clinics

The cost-effective **TELECAM SL II** and **Veterinary Video Camera III** camera platform offers functionality, image quality and high performance, ensuring a high degree of patient safety combined with cost-efficiency.

The new KARL STORZ camera system provides such a wide range of applications that it is also suitable for routine use in the OR.

Special Features	TELECAM SL II	Veterinary Video Camera III
Compatible with KARL STORZ Video Endoscopes	●	●
Automatic exposure control for superior image quality and maximum control	●	●
Anti-moiré filter	●	●
Automatic white balance with memory function	●	●
Horizontal resolution of more than 450 lines	●	●
Programmable function keys for four camera functions or peripheral devices	●	●
Freeze Frame to “freeze” images for the purpose of documenting clinical findings, for diagnostic consultations with colleagues or patients and for patient documentation	●	●
Lightweight design allows ergonomic use	●	●
Composite and S-Video output	●	●
Up to 60 times higher light sensitivity due to integrated digital processing technology (IPM)	●	–
Optical Parfocal Zoom Lens, integrated in all camera heads used	●	–
Digital video output (DV)	●	–
Keyboard Input, for entering patient data	●	–
Electronic zoom 1-2x can be adjusted to 4 levels	●	–
Manual or fully automatic exposure control	●	●
Contrast enhancement and digital filter for improved image quality	●	–
Patient Information Display	●	–

2-12

TELECAM SL II

Camera Control Unit

KARL STORZ — ENDOSKOPE

20 2130 11U **TELECAM SL II Camera Control Unit**

color systems **PAL/NTSC,** with integrated digital Image Processing Module, power supply 100 – 240 VAC, 50/60 Hz

including:

Mains Cord

2x **Connecting Cable,** for controlling peripheral devices

BNC/BNC Video Cable

S-Video (Y/C) Connecting Cable

DV Connecting Cable, 6 pin to 4 pin

Keyboard, with US English character set

Specifications:

Video output	- S-Video signal to 4 pin Mini-DIN socket (2x) - Composite signal at BNC socket - DV signal to 6 pin DV socket
Input	keyboard input for title generator and camera functions to 5 pin DIN socket
Control output	3.5 mm stereo jack plug (ACC 1, ACC 2)

Control Unit (CCU)	Dimensions: 305 x 88 x 254 mm (w x h x d)
Control unit	2.7 kg
Power supply	100-240 VAC, 50/60 Hz
Certified to	IEC 601-1, 601-2-18, CSA 22.2 No. 601, UL 2601 and CE acc. to MDD, protection class 1/BF

Further accessories for TELECAM SL II see pages TP 43-44

Component Parts see COMPONENTS, SPARE PARTS

Veterinary Video Camera III

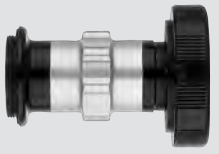
One-Chip Camera System, Color Systems PAL/NTSC

Special Features:

All previously compatible TELECAM camera heads can be operated with the new Veterinary Video Camera III platform.

The new platform features the following installed functions:

- **Compatible with the PAL and NTSC color systems**
- **Integrated freeze frame function**
- **Integrated electronic fiberscope filter**
- **Patented autoexposure system**
- **Menu available in 6 languages: (German, English, French, Italian, Portuguese and Spanish)**
- **Freely programmable camera head buttons**



69 2360 01 **PAL** **Veterinary Video Camera III**

color system **PAL,** power supply 100 – 240 VAC, 50/60 Hz

including:

Veterinary Video Camera III Camera Control Unit, color systems **PAL/NTSC,** with integrated digital fiberscope filters

Mains Cord

2x **Connecting Cable,** for controlling peripheral units, length 180 cm

BNC/BNC Video Cable, length 180 cm

S-Video (Y/C) Connecting Cable, length 180 cm

C-MOUNT Lens, f = 38 mm, soakable

VET C-MOUNT Camera Head, PAL

69 2361 01 **NTSC** **Veterinary Video Camera III**

color system **NTSC,** power supply 100 – 240 VAC, 50/60 Hz

including:

Veterinary Video Camera III Camera Control Unit, color systems **PAL/NTSC**, with integrated digital fiberscope filters

Mains Cord

2x **Connecting Cable,** for controlling peripheral units, length 180 cm

BNC/BNC Video Cable, length 180 cm

S-Video (Y/C) Connecting Cable, length 180 cm

C-MOUNT Lens, f = 38 mm, soakable

VET C-MOUNT Camera Head, NTSC

2-12

Optional accessories for Veterinary Video Camera III see pages TP 43-44

Component Parts see COMPONENTS, SPARE PARTS

Veterinary Video Camera III

Camera Control Unit, Camera Head

KARL STORZ — ENDOSKOPE

Camera Control Unit

69 2360 20

69 2360 11	**Veterinary Video Camera III Camera Control Unit**

color systems **PAL/NTSC,** with integrated digital fiberscope filters

including:

Veterinary Video Camera III Camera Control Unit

Mains Cord

2x **Connecting Cable,** for controlling peripheral units, length 180 cm

BNC/BNC Video Cable, length 180 cm

S-Video (Y/C) Connecting Cable, length 180 cm

Specifications:

Video output	- Composite signal to BNC socket - S-Video signal to 4-pin Mini DIN socket (2x)
Control output	3.5 mm stereo jack plug (ACC 1, ACC 2)
Control Unit (CCU)	- Dimensions: 305 x 88 x 254 mm (w x h x d) - Weight: 2.7 kg

Power supply	100-240 VAC, 50/60 Hz
Certified to:	IEC 601-1, 601-2-18, CSA 22.2 No. 601, UL 2601, and CE acc. to MDD, protection class 1/BF

Veterinary Video Camera III C-MOUNT One-Chip Camera Head

Veterinary Video Camera C-MOUNT One-Chip Camera Head

69 2150 34 / **69** 2151 34

69 2150 34	**PAL**	**Veterinary Video Camera C-MOUNT One-Chip Camera Head**
69 2151 34	**NTSC**	

color systems **PAL/NTSC,** 2 freely programmable camera head buttons

For use with Veterinary Video Camera III Camera Control Unit 69 2360 11

Specifications:

Image Sensor	- ½" CCD chip
Pixels	- 752 (H) x 582 (V) pixels per chip (PAL) - 768 (H) x 494 (V) pixels per chip (NTSC)
Resolution	> 450 lines (horizontal)
Signal-to-Noise Ratio	> 50 dB (PAL) > 52 dB (NTSC)

AGC	Microprocessor-controlled
Min. Sensitivity	3 Lux (f = 1.4 mm)
Exposure Control	- $^1/_{50}$ sec.-$^1/_{10000}$ sec. (PAL) - $^1/_{60}$ sec.-$^1/_{10000}$ sec. (NTSC)
Lens	C-MOUNT: integrated special lens, C-MOUNT

Optional Accessories for Veterinary Video Camera III see pages TP 43-44

Component Parts see COMPONENTS, SPARE PARTS

For use with TELECAM SL II Camera Control Unit 20 2130 11U, Veterinary Video Camera III Control Unit 69 2360 20, TELE PACK VET X 69 0450 20

20 2120 40 / **20** 2121 40

20 2120 40	**PAL**	**TELECAM**
20 2121 40	**NTSC**	**One-Chip Camera Head**

color systems **PAL/NTSC, autoclavable,** soakable, gas-sterilizable, with integrated Parfocal Zoom Lens, f = 14 – 28 mm (2x), 2 freely programmable camera head buttons, including plastic container 39301 ACT for sterilization

20 2120 30 / **20** 2121 30

20 2120 30	**PAL**	**TELECAM**
20 2121 30	**NTSC**	**One-Chip Camera Head**

color systems **PAL/NTSC,** soakable, gas-sterilizable, with integrated Parfocal Zoom Lens, f = 25 – 50 mm (2x), 2 freely programmable camera head buttons

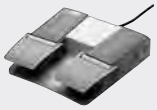
69 2150 34 / **69** 2151 34

69 2150 34	**PAL**	**Veterinary Video Camera**
69 2151 34	**NTSC**	**C-MOUNT One-Chip Camera Head**

color systems **PAL/NTSC,** 2 freely programmable camera head buttons

2-12

Further accessories for TELECAM SL II and Veterinary Video Camera III see pages TP 43-44

	20 2000 42	**C-MOUNT Lens,** f = 30 mm, soakable
	20 2000 43	**C-MOUNT Lens,** f = 38 mm, soakable
	20 2301 41	**C-MOUNT Lens,** f = 25 mm, soakable
	20 2301 45	**C-MOUNT Lens,** f = 12 mm, soakable
	81 1310 21	**Spare Lamp,** 50 W, for TELE PACK VET X
	20 0141 30	**One-Pedal Footswitch,** digital, one-stage, for irrigation
	20 2330 70	**Adaptor ACC 1,** for Footswitch **20** 0141 30
	**20** 0143 30	**Two-Pedal Footswitch,** one-stage
	20 2330 70	**Adaptor ACC 1,** for Footswitch **20** 0101 30
	29020 GM	**Adaptor,** for Machida fiberscopes
	29020 GN	**Adaptor,** for Olympus fiberscopes, new type
	29020 GO	**Adaptor,** for Olympus fiberscopes, old type
	29020 GP	**Adaptor,** for Pentax and Fujinon fiberscopes

TELE PACK VET X, TELECAM and Veterinary Video Camera III

Accessories

KARL STORZ — ENDOSKOPE

20 2002 31 **Keyboard,** with German character set, PS/2 connector, including AT-adaptor and protective cover
20 2002 31F **Same,** with French character set
20 2002 31I **Same,** with Italian character set
20 2002 31P **Same,** with Portuguese character set
20 2002 31S **Same,** with Spanish character set
20 2002 31U **Same,** with US English character set

20 0402 40DE **Silicone Keyboard,** with German character set, USB plug, with touchpad
20 0402 40FR **Same,** with French character set
20 0402 40IT **Same,** with Italian character set
20 0402 40PT **Same,** with Portuguese character set
20 0402 40ES **Same,** with Spanish character set
20 0402 40RU **Same,** with Russian character set
20 0402 40US **Same,** with US English character set

20 0402 80 **KARL STORZ USB Flash Drive,** 4 GB

20 2002 70 **Extension Cable,** for TELECAM SL II and Veterinary Video Camera III, length 600 cm

20 2130 70 **Video Connecting Cable,** between KARL STORZ video endoscopes and TELECAM SL II, Veterinary Video Camera III or TELE PACK VET X, length 60 cm

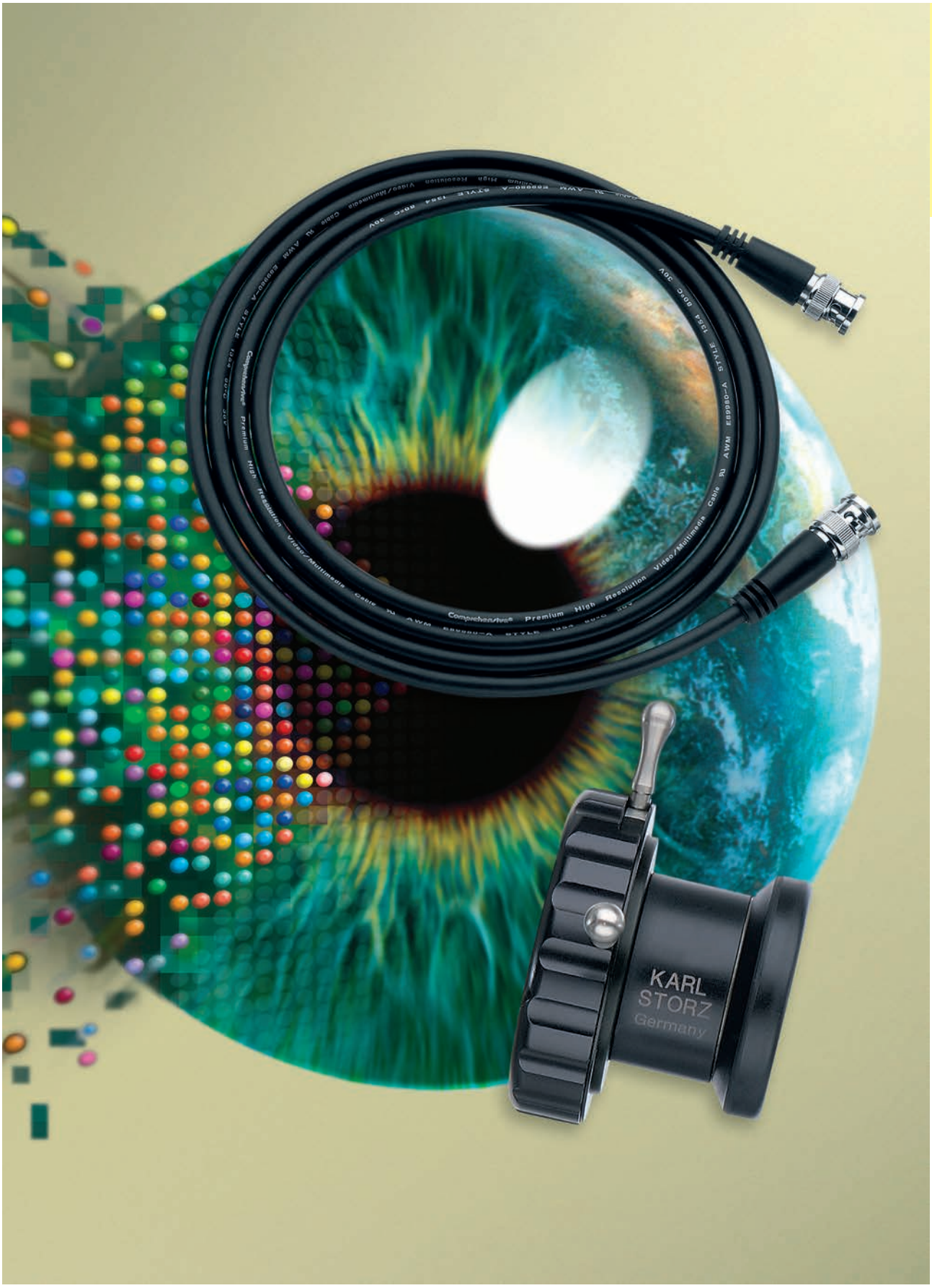
39301 ACT **Plastic Container for Sterilization and Storage,** of camera heads IMAGE1 P3, TRICAM® and TELECAM, **autoclavable,** for use with steam, gas and plasma sterilization

Please note: The instrument displayed is not included in the plastic container.

Only camera heads marked “autoclave” can be placed in the tray for steam sterilization.

(except IMAGE1 FULL HD camera heads)

2-12


KARL
STORZ
Germany

Camera Heads, Camera Control Unit

Matrix

Camera Control Units		IMAGE 1 HUB™ HD	IMAGE1 HD	
Camera Heads	**Cat. No.**	**22** 2010 11-1xx	**22** 2020 11-1xx	
IMAGE1 FULL HD Camera Heads				
H3-Z	**22** 2200 55-3	●	●	
H3-FA	**22** 2200 60-3	●	●	
H3-ZA	**22** 2200 61-3	●	●	
H3-M COVIEW®	**22** 2200 54-3	●	●	
H3-Z FI	**22** 220085-3	●	●	
IMAGE1 SD Camera Heads				
F3	**22** 2200 33-3 (PAL) **22** 2201 33-3 (NTSC)	●	–	
3D TIPCAM®1				
3D TIPCAM®1	26604 AA (PAL) 26614 AA (NTSC)	–	–	
TRICAM® Camera Heads				
TRICAM®, autoclavable	**20** 2210 40 (PAL) **20** 2211 40 (NTSC)	–	–	
TRICAM®	**20** 2210 30 (PAL) **20** 2211 30 (NTSC)	–	–	
TRICAM® PDD Pendel	**20** 2210 39 (PAL) **20** 2211 39 (NTSC)	–	–	
TRICAM® PDD	**20** 2210 37 (PAL) **20** 2211 37 (NTSC)	–	–	
TELECAM-compatible Camera Heads				
VET C-MOUNT Camera Head	**69** 2150 34 **69** 2151 34	–	–	
TELECAM, autoclavable	**20** 2120 40 (PAL) **20** 2121 40 (NTSC)	–	–	
TELECAM C-MOUNT	**20** 2120 34 (PAL) **20** 2121 34 (NTSC)	–	–	
TELECAM Beamsplitter (f = 25 mm)	**20** 2120 32 (PAL) **20** 2121 32 (NTSC)	–	–	
TELECAM DCI® II	**20** 2620 30 (PAL) **20** 2621 30 (NTSC)	–	–	
C-CAM™				
C-CAM™	**20** 2901 32	–	–	
Videoendoscope Adapters				
Video Endoscope Adaptor (for connecting video endoscopes with TELECAM, Veterinary Video Camera III and TELE PACK VET X)	**20** 2130 70	–	–	
Video Endoscope Adaptor (suitable for fluorescence applications with PDD/AF video endoscopes)		–	–	
Video Endoscope Adaptor (for connecting video endoscopes with IMAGE1)	**22** 2000 77 (PAL)	●	–	2-12

	3D System	TRICAM® SL II	TELECAM SL II	Veterinary Video Camera III	TELE PACK VET X	C-HUB™
	22 2040 11-114	**20** 2230 11U1xx	**20** 2130 11	**69** 2360 11	**69** 0450 01 **69** 0450 02	**20** 2901 01
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Video Endoscopes, Camera Control Unit

Matrix

Camera Control Units		IMAGE 1 HUB™ HD	GI	
Video Endoscopes	**Cat. No.**	**22** 2010 11U1xx	**22** 2030 11-1xx	
Bronchoscopy				
Video Bronchoscope	11900 BP 11900 BN	***22** 2000 77 ***22** 2001 77	–	
Gastroenterology				
Feline Videoendoscope	60511 PKS/NKS	***22** 2000 77 ***22** 2001 77	***22** 2000 77 ***22** 2001 77	
Multipurpose Video Endoscopes	60714 PKS/NKS 60914 PKS/NKS	***22** 2000 77 ***22** 2001 77	–	
Urology				
Video Uretero-Renoscope FLEX-X^{C}	11278 V 11278 VU	●	–	

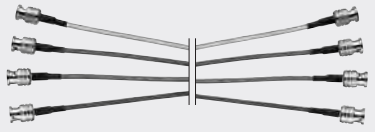
* video endoscope adaptor

2-12

	TELECAM SL II FI	TELECAM SL II	Veterinary Video Camera III	TELE PACK VET X	C-HUB™
	20 2130 11-1	**20** 2130 11	**20** 2330 11	**69** 0450 20	**20** 2901 01
	***20** 2130 70	***20** 2130 70	**–**	***20** 2130 70	–
	***20** 2130 70	***20** 2130 70	–	***20** 2130 70	–
	***20** 2130 70	***20** 2130 70	–	***20** 2130 70	–
	–	–	–	–	–

2-12

Video Cable and SCB Cable

	20 0400 89	**DVI-D Connecting Cable,** length 300 cm
	536 MK	**BNC/BNC Video Cable,** length 200 cm
	536 MF	**BNC/BNC Video Cable,** length 450 cm
	536 ME	**BNC/BNC Video Cable,** length 760 cm
	536 MN	**BNC/BNC Video Cable,** length 15 m
	547 S	**S-Video (Y/C) Connecting Cable,** length 180 cm
	547 SR	**S-Video (Y/C) Connecting Cable,** length 500 cm
	547 SN	**S-Video (Y/C) Connecting Cable,** length 15 m
	547 SE	**S-Video (Y/C) Extension Cable,** length 500 cm
	547 RG	**RGBS Connecting Cable,** length 180 cm
	20 2032 70	**Special RGB Connecting Cable,** length 180 cm
	20 0403 72	**SVGA Monitor Cable,** length 180 cm
	20 0403 74	**SVGA Monitor Cable,** length 300 cm
	20 2210 70	**Connecting Cable,** for controlling peripheral units, length 180 cm
	20 2210 75	**Connecting Cable,** for controlling video printers or video recorders, length 15 m
	20 2210 76	**Extension Cable,** for controlling video printers or video recorders, length 500 cm
	20 2210 77	**Extension Cable,** for controlling video printers or video recorders, length 15 m
	20 0900 70	**SCB Connecting Cable,** length 30 cm
	20 0903 70	**SCB Connecting Cable,** length 60 cm
	20 0901 70	**SCB Connecting Cable,** length 100 cm
	20 0902 70	**SCB Connecting Cable,** length 500 cm
	20 0904 70	**SCB Connecting Cable,** length 750 cm
	20 0905 70	**SCB Connecting Cable,** length 15 m
	20 0906 70	**SCB Connecting Cable,** length 23 m
	20 0907 70	**SCB Connecting Cable,** length 30 m

2-12

Sterile Covers

for all KARL STORZ Camera Heads

040112-40*	**Camera Cover,** folded inside out, 13 x 242 cm, sterile, package of 25, for use with all standard endoscopic video camera systems
040113-50*	**Camera Cover,** for single use, sterile, 13 x 242 cm, telescopic folding with paper insertion aid, package of 50, for use with all currently available endoscopic video camera systems
040114-15*	**Camera Cover,** for single use, sterile, 17 x 242 cm, rolled with plastic insertion aid, package of 15, for use with all currently available endoscopic video camera systems
040115-40*	**Camera Cover,** for single use, sterile, 13 x 242 cm, telescopic folding with paper insertion aid, package of 40, for use with all currently available endoscopic video camera systems
040169-40*	**Camera Cover,** for single use, sterile, 13 x 242 cm, with elastic telescope opening, package of 40, for use with all currently available endoscopic video camera systems as well as for KARL STORZ DCI® camera systems

Note:

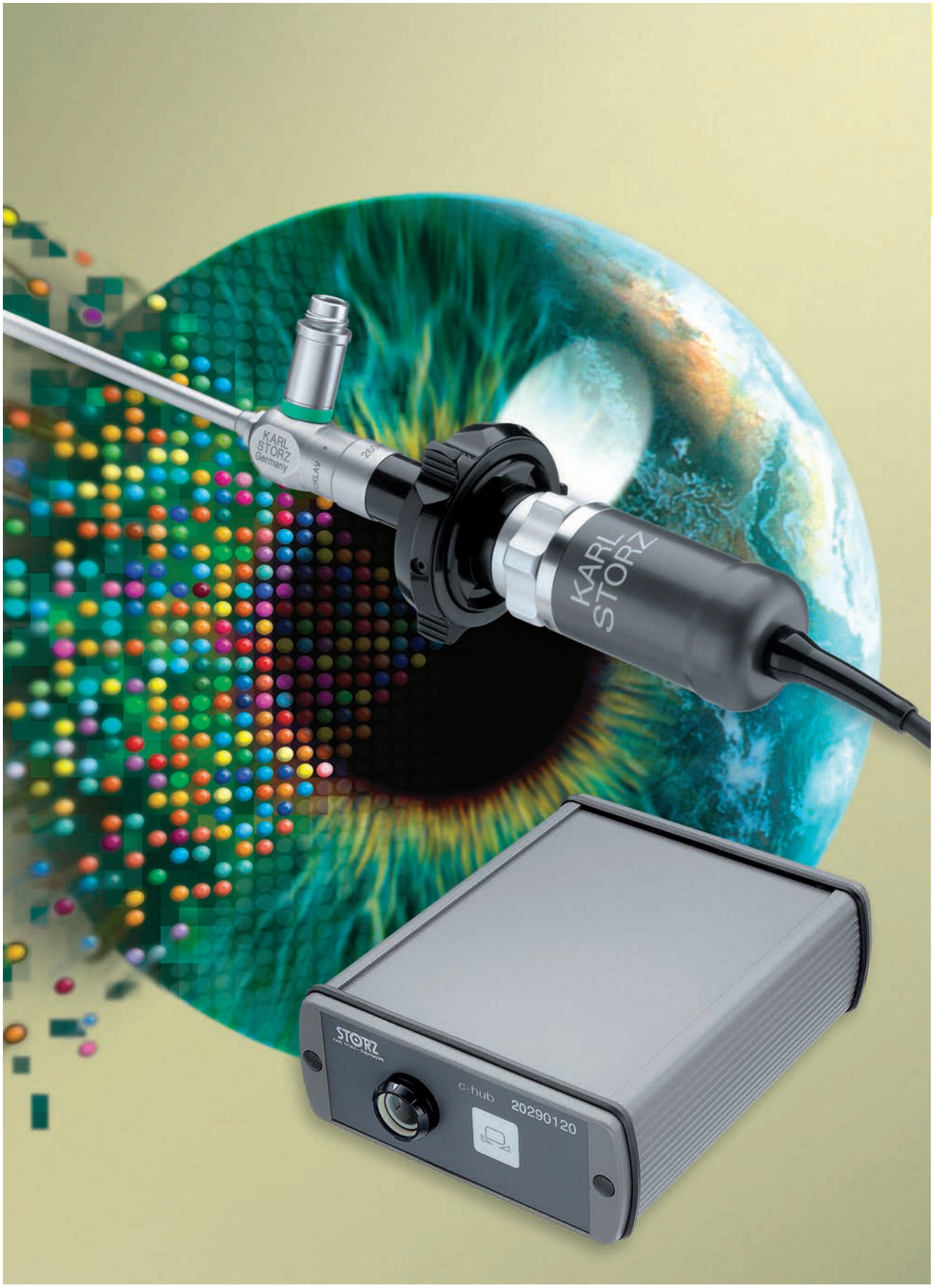
To ensure a safe and convenient use of KARL STORZ ENDOVISION® and IMAGE1 cameras, we recommend the use of sterile covers by:

mtp medical technical promotion gmbh
Take-Off GewerbePark 46
D-78579 Neuhausen ob Eck
Germany
Telephone: +49/74 67/9 45 04-0
Fax: +49/74 67/9 45 04-99

CAMERA SYSTEMS

C-HUB™ and C-CAM™ NEW

KARL STORZ — ENDOSKOPE



C-HUB™ and C-CAM™ NEW

Nothing could be easier!

How can a standard exam room with table, chair and computer be converted into an effective examination room with an endoscope and a camera? Quite simple: The KARL STORZ C-CAM™ can be directly connected to a USB interface on a Medical PC via C-HUB™.

Thanks to its CMOS sensor, the C-CAM™ camera head is able to provide a resolution of 640 x 480 pixels. The endoscope can be attached as usual with the proven KARL STORZ grip mechanism.

C-HUB™ features an USB interface that can be connected to all Medical PCs, whether desktops or laptops. It also features an S-Video connection for direct transmission of image data to an external monitor.

If the C-HUB™ is connected to a Medical PC, image data or videos can be directly archived on the hard drive and processed with the relevant programs.

All in all, the KARL STORZ C-CAM™ in conjunction with C-HUB™ offers an effective possibility to perform fast and easy endoscopic examinations in any practice.

20 2901 01

20 2901 01	**C-HUB™ Camera Control Unit**

for use with C-CAM™ **20** 2901 32, Electronic Module 8402 X or compatible CMOS video endoscopes, interfaces: USB 2.0, S-Video output (NTSC), power socket

including:

C-HUB™ Power Supply

S-Video (Y/C) Connecting Cable

USB Connecting Cable

20 2901 32/**20** 2901 31

20 2901 32	**C-CAM™ Camera Head, 8-pin**

one-chip CMOS camera head, resolution 640 x 480, focal length f = 20 mm, compatible with C-HUB™ **20** 2901 01 and C-MAC® 8402 ZX

20 2901 31	**C-CAM™ Camera Head, 6-pin**

one-chip CMOS camera head, resolution 640 x 480, focal length f = 20 mm, compatible with C-MAC® 8401 ZX

2-12

Component Parts see COMPONENTS, SPARE PARTS

C-MAC® Monitor System NEW

Monitor/Electronic Module

Special Features:

- **Resistant ABS plastic housing**
- **Splash-proof according to IP54**
- **7" TFT wide view angle display with resolution of 800 x 480 pixels**
- **Ready for use within seconds**
- **Documentation of still images (JPEG) and videos (MPEG4) on SD memory card**
- **VESA 75 norm for connecting and attaching racks**
- **Soft keys enable use within seconds**
- **Cinch video output for connecting external monitor**
- **System open for further components**
- **Operating time with lithium-ion batteries of about 2 hours**
- **World power supply 100 – 240 VAC, 50/60 Hz**
- **Operation with line voltage and rechargeable lithium-ion batteries**
- **Processing of the electronic module: Suitable and validated for the following low-temperature reprocessing methods up to bis max. 60 °C: manual/machine cleaning and disinfection, sterilization with Steris® AMSCO V-PRO 1, Sterrad® (50S, 100S, 200S, NX, 100NX) and EtO gas; High-Level Disinfection (HLD) acc. to US standards**
- **Additional standards: RTCA/DO-160F, EMI Test Report (German air rescue service DRF Luftrettung)**

8402 ZX

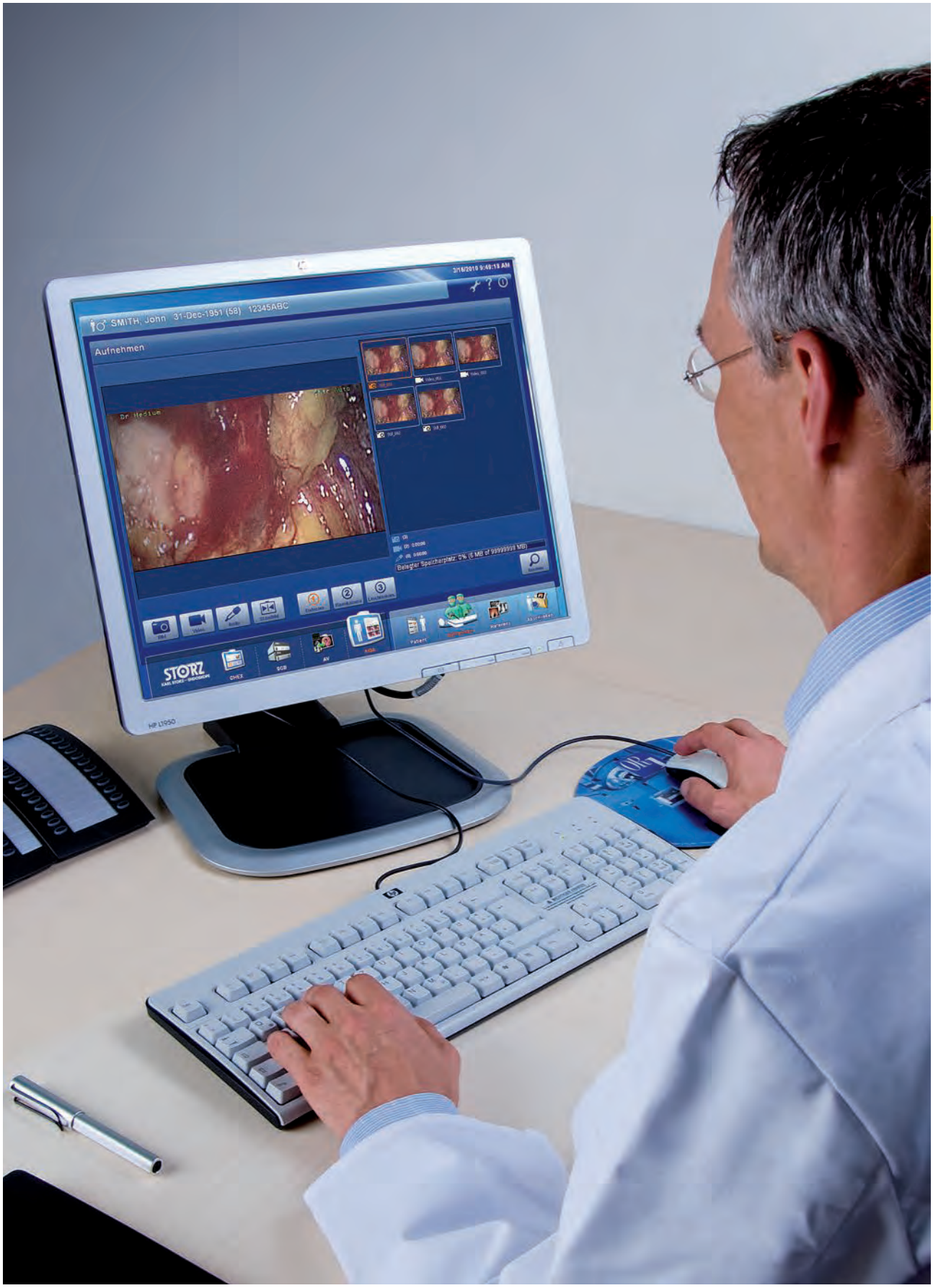
8402 ZX **Monitor for CMOS Endoscopes,** screen size 7", documentation can be stored directly on SD card, rechargeable Li-Ion batteries, power adaptor for EU, UK, USA and Australia, power supply 110 – 240 VAC, 50/60 Hz, additional standards: RTCA/DO-160F, EMI Test Report (German air rescue service DRF Luftrettung), **suitable for wipe disinfection**

Component Parts see COMPONENTS, SPARE PARTS

CAMERA SYSTEMS

Data Management and Documentation

KARL STORZ AIDA®



Data Management and Documentation

KARL STORZ AIDA® compact NEO advanced/standard

KARL STORZ — ENDOSKOPE

		AIDA compact NEO advanced	AIDA compact NEO standard
Digital storage		●	●
Recording of still images, video sequences, voice commentaries		●	●
Live mode via flat/touch screen		●	●
Sterile use of recording functions via:	touch screen	●	●
	voice control	❍	❍
	footswitch	●	●
	camera head buttons	●	●
Choice of 3 video inputs on user interface		●	●
File system storage		●	●
Storage on:	CD-ROM, DVD	●	●
	USB flash drive	●	●
	internal or external hard drive	●	●
	network path	●	●
Multipatient storage		●	●
Cache		●	●
Standard report		●	●
Communication package (DICOM/HL7)		●	●
Integrated image editor		●	●
Integration of image material in applications, i. e. training materials and presentations		●	●
Printer connection via USB/network		●	●
Image formats		BMP, JPG	BMP, JPG
Video formats		MPEG2	MPEG2
Video signal inputs:	analog	Y/C (S-Video), Composite	Y/C (S-Video), RGB, Composite
	digital	DVI-D	SD-SDI, HD-SDI
Still image resolution		1920 x 1080, 720 x 576	1920 x 1080, 720 x 576
Video sequence resolution		1920 x 1080 (1080p) 1280 x 720 (720p) 720 x 576 (PAL) 720 x 480 (NTSC)	1280 x 720 (720p) 720 x 576 (PAL) 720 x 480 (NTSC)
Adjustable video bit rate		●	●
Compatible with:	SCB control NEO, as of Release 41	●	●
	OR1™ AV system NEO	●	●

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● Standard
❍ Options

The Compact Documentation Solution

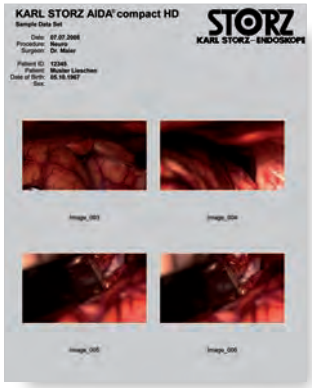
The new KARL STORZ AIDA® compact NEO advanced/standard system combines all the required functions for integrated and precise documentation in a single system. All functions are centrally controlled via touch screen, footswitch, camera head buttons or voice control directly from the sterile area.

AIDA compact NEO advanced/ standard: *Review screen*

Data Acquisition

AIDA compact NEO advanced/standard records still images, video sequences (in HD quality) and spoken comments of findings and intraoperative procedures directly from the sterile area. Recordings are activated via touch screen, footswitch or camera head buttons.

Live display of camera images on the touch screen enables immediate monitoring and selection of the recorded data.



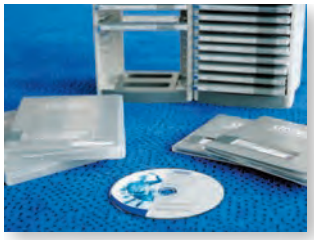
AIDA compact NEO advanced/ standard: *Automatic creation of standard reports*

Flexible Review

Before final archiving, the saved data can be viewed or listened to on the review screen. Data no longer required can be simply deleted.

Individual images, video and audio sequences can be renamed and given more meaningful names. A pre-defined selection list with keywords simplifies and speeds up data entry.

A voice entry of the case report can even be recorded while viewing video and image files.



AIDA compact NEO advanced/ standard: *Efficient archiving*

Automated Data Archiving

Once a treatment is completed, AIDA compact NEO advanced/standard automatically stores the data on a DVD, creates a standard report and prints it as an overview, if required.

Multipatient

Efficient data archiving is assured as the data of several patients can be saved on a DVD.

Data Management and Documentation

KARL STORZ AIDA® compact NEO advanced/standard

KARL STORZ — ENDOSKOPE

Special Features:

- Digital storage of still images with a resolution of 1920 x 1080 in both systems (advanced/standard) possible. Video sequences to 1080p with advanced and to 720p with standard variant possible (via HD-SDI)
- Audio files can be archived in both systems
- DICOM/HL7 interface package included
- Printing from review area (individual images with meta-data)
- DVD burning, Blu-ray reading capabilities
- AIDA Restore Configuration supports simple import and export of system settings
- Reference screen with new QuickView (favorites folder)
- Video settings (e.g., contrast, …) separate for all channels
- Adaptation options for GUI
- Compressed DICOM
- Supports OR1™ Checklist V1.1
- Enhanced support of 15" monitors with OR1™ checklist installation
- Scalable watermark
- High-quality function and switching of image/video quality without additional settings
- Sterile, ergonomic operation via touch screen, camera head buttons and/or footswitch
- Data export to DVD, CD-ROM or USB flash drive, multi-session and multi-patient
- Network storage possible
- Automatic creation of standard reports
- Systems for use in the OR area certified according to EN 60601-1
- Compatible with KARL STORZ Communication Bus (SCB) and KARL STORZ OR1™ AV NEO
- KARL STORZ AIDA® compact advanced/ standard as an attractive, digital alternative to video printers, video recorders and dictating machines

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20 0409 13-EN* **KARL STORZ AIDA® compact NEO advanced**

Documentation system for digital storage of still images, video sequences and audio files, power supply 115/230 VAC, 50/60 Hz

including:

KARL STORZ AIDA® control NEO, with integrated DVD/CD writer, Blu-ray reading possible

AIDA compact HD Frame Grabber Card

PS/2 Compact Keyboard, US English, with cover

KARL STORZ AIDA® compact NEO Software, with voice control and software protection

KARL STORZ USB Flash Drive

2x **Connecting Cables,** for controlling peripheral units

BNC/BNC Video Cable

BNC Connecting Cable

DVI-D Connecting Cable

Mains Cord

Connecting Cable, Mini-DIN plug to BNC socket

20 0409 12-EN* **KARL STORZ AIDA® compact NEO standard**

Documentation system for digital storage of still images, video sequences and audio files, power supply 115/230 VAC, 50/60 Hz

Specifications:

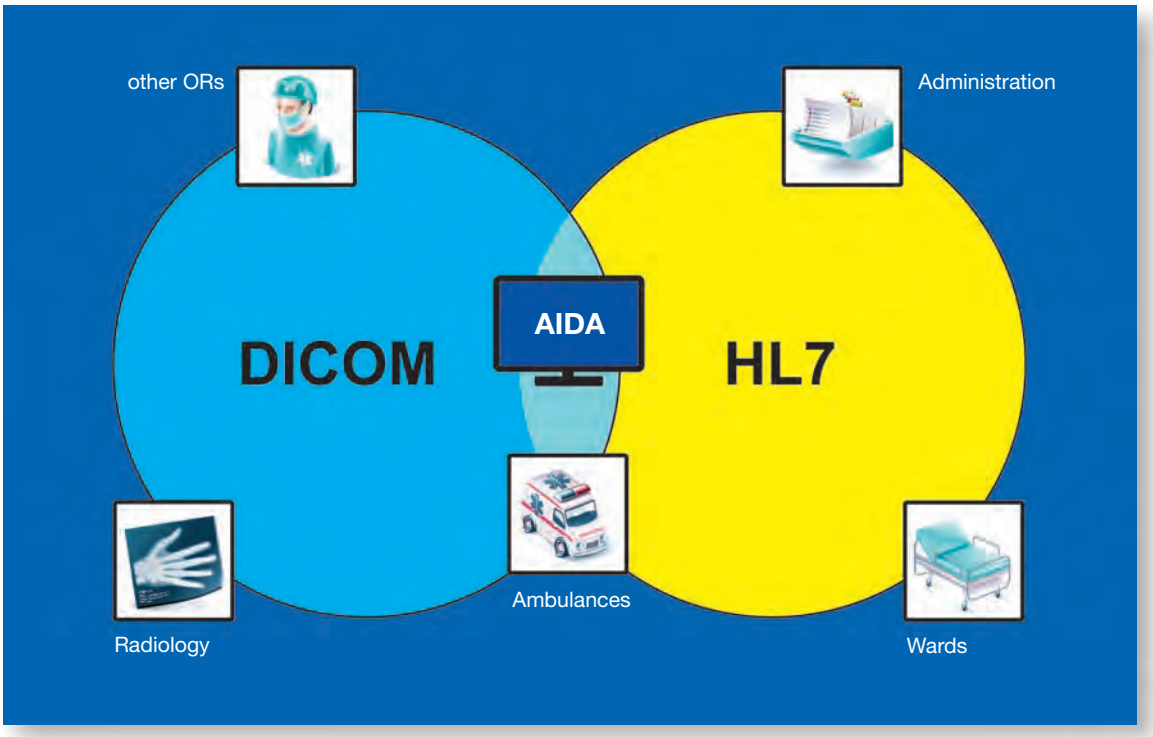
Video Systems	- PAL, NTSC
Signal Inputs	- S-Video (Y/C) - Composite - RGB (only standard) - SD-SDI (only standard) - HD-SDI (only standard) - DVI-D (only advanced)
Image Formats	- JPG - BMP

Video Formats	- MPEG2
Audio Formats	- WAV
Storage Media	- DVD+R - DVD+RW - DVD-R - DVD-RW - CD-R - CD-RW - USB flash drive

* **Available in the following languages:** DE, ES, FR, IT, PT, PL, RU, DK, SE, JP, CN

Component Parts see COMPONENTS, SPARE PARTS

AIDA – Link to PACS and HIS



DICOM

DICOM is an acronym for Digital Imaging and Communications in Medicine. It describes a file format accepted worldwide for exchanging image data within clinics. In contrast to pure image formats, the DICOM format also includes patient data. It ensures that information is clearly allocated during data processing. Radiological, ultrasound images and CT scans for example contain meta-information such as demographic patient data, admission dates, etc. which can be transferred as a single unit within the clinic network. The DICOM standard enables straightforward and secure communication of medical imaging equipment and servers to archive image data.

HL7

HL7 is the acronym for Health Level Seven. It describes an international standard for exchanging medical data. HL7 originated in the USA and is generally used in the Hospital Information System (HIS) for transferring patient-related data which do not contain image data. The objective of HL7 is to improve communication channels within clinic networks.

KARL STORZ TFT Flat Screens

W29519 N

W29519 NB

KARL STORZ TFT Flat Screens	19"
Desktop with pedestal	W29519 N
Wall mounted with VESA 100 adaption	W29519 NB
Inputs:	
SDI	●
HD-SDI	●
RGBS	●
S-Video	●
Composite	●
SOG	●
DVI-D	●
Fiber Optic	–
VGA	●
Outputs:	
SDI	●
HD-SDI	●
RGBS	●
S-Video	●
Composite	●
DVI-D	●
Signal Format Display:	
4:3	●
5:4	●
16:9	●
16:10	●
Picture-in-Picture (PiP, HD – SD)	●
Picture-in-Picture (PiP, HD – HD)	●
PAL/NTSC compatible	●
Picture-Perfect Technology	●

The following accessories are included:
Mains Cord, length 300 cm
Power Supply
Pedestal, for 15", 19", 24" and 26" monitors for the 95xx or 97xx series

KARL STORZ TFT Flat Screens

W29519 N	**19" KARL STORZ TFT Flat Screen**

desktop with pedestal, color systems **PAL/NTSC,** max. screen resolution 1280 x 1024, power supply 100 – 240 VAC, 50/60 Hz

W29519 NB	**19" KARL STORZ TFT Flat Screen**

wall-mounted with VESA 100 adaption, color systems **PAL/NTSC,** max. screen resolution 1280 x 1024, power supply 100 – 240 VAC, 50/60 Hz

including:

Power Supply
Mains Cord
BNC/BNC Video Cable
S-Video (Y/C) Connecting Cable
DVI-D Connecting Cable
SVGA Monitor Cable

Specifications:

KARL STORZ TFT Flat Screens	**19"**
Desktop with pedestal	W29519 N
Wall mounted with VESA 100 adaption	W29519 NB
Brightness	300 cd/m²
Max. viewing angle	178° vertical
Pixel distance	0.294 mm
Reaction time	10-16 ms
Contrast ratio	600:1
Mount	100 mm VESA
Weight	6.8 kg
Rated power	65 Watt
Operating conditions	0-38 °C
Storage	-20-60 °C
Rel. humidity	5-85%, non-condensing
Dimensions w x h x d	465 x 400 x 98 mm
Power supply	100-240 VAC
Certified to	EN 60601-1, UL 60601-1, MDD 93/42/EEC, protection class IPX1

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Component Parts see COMPONENTS, SPARE PARTS

KARL STORZ Touch Screens

20 0904 03/**20** 0904 06

20 0904 01/**20** 0904 05

KARL STORZ Touch Screens	15"	19"
Desktop with pedestal	**20** 0904 03	**20** 0904 06
Wall mounted with VESA 75/100 adaption	**20** 0904 01	**20** 0904 05
Inputs:		
VGA	●	●
SVGA	●	●
XGA	●	●
SXGA	–	●
Screen Diagonal:		
38 cm	●	–
48 cm	–	●
Max. Screen Resolution:		
1024 x 768	●	–
1280 x 1024	–	●

Specifications:

KARL STORZ Touch Screens	15"	19"
Desktop with pedestal	**20** 0904 03	**20** 0904 06
Wall mounted with VESA 75/100 adaption	**20** 0904 01	**20** 0904 05
Monitor type	TFT-LCD monitor with active matrix	TFT-LCD monitor with active matrix
Display	304 x 228 mm	376 x 301 mm
Touch screen	AccuTouch	AccuTouch
Colors	16 million with pixel shading	16 million with pixel shading
Brightness	250 cd/m² (typ.)	250 cd/m² (typ.)
Viewing angle	horizontal total 80° vertical total 80°	horizontal total 85° vertical total 85°
Contrast ratio	400:1 (typ.)	500:1 (typ.)
Monitor reaction time	25 ms	25 ms
Pixel distance	0.30 mm	0.29 mm
Input signal level	0.7 Vpp	0.7 Vpp
Rated power	48 VA	90 VA
Connections	- D-Sub - VGA-compatible analog-RGBS	- D-Sub - VGA-compatible analog-RGBS
Power supply	100-240 VAC, 50/60 Hz	100-240 VAC, 50/60 Hz
Certified to	EN 60601-1, CSA 22.2 Nr. 601.1, UL 2601-1	EN 60601-1, CSA 22.2 Nr. 601.1, UL 2601-1
Mechanical values	- weight: max. 6.5 kg - dimensions w x h x d: 375 x 356 x 205 mm	- weight: max. 10.5 kg - dimensions w x h x d: 432 x 467 x 251 mm

KARL STORZ Touch Screens

20 0904 01 **15" KARL STORZ Touch Screen**

wall-mounted, VGA/SVGA/XGA, resolution max. 1024 x 768 (XGA mode), power supply 100 – 240 VAC, 50/60 Hz, with mains adaptor, CD driver and 3 touch screen covers

including:

Touch Pen

Adaptor, VESA 75

Signal cables: RS 232, SVGA

20 0904 03 **15" KARL STORZ Touch Screen**

desktop, VGA/SVGA/XGA, resolution max. 1024 x 768 (XGA mode), power supply 100 – 240 VAC, 50/60 Hz, with mains adaptor, CD driver and 3 touch screen covers

including:

Touch Pen

Pedestal

Signal cables: RS 232, SVGA

20 0904 05 **19" KARL STORZ Touch Screen**

wall-mounted, VGA/SVGA/XGA/SXGA, resolution max. 1280 x 1024 (SXGA mode), power supply 100 – 240 VAC, 50/60 Hz, with mains adaptor, CD driver and 3 touch screen covers

including:

Touch Pen

Signal cables: RS 232, SVGA

20 0904 06 **19" KARL STORZ Touch Screen**

desktop, VGA/SVGA/XGA/SXGA, resolution max. 1280 x 1024 (SXGA mode), power supply 100 – 240 VAC, 50/60 Hz, with mains adaptor, CD driver and 3 touch screen covers

including:

Touch Pen

Pedestal

Signal cables: RS 232, SVGA

Accessories:

20 0904 81	**Mains Adaptor,** for 15" KARL STORZ Touch Screen **20** 0903 31, with 300 cm low voltage cable
20 0904 85	**Mains Adaptor,** for 19" KARL STORZ Touch Screen **20** 0904 37, with 300 cm low voltage cable
20 0903 86	**Touch Pen,** for KARL STORZ touch screens
20 0904 86	**Pedestal,** for 15" KARL STORZ Touch Screen **20** 0903 31
20 0904 87	**Pedestal,** for 19" KARL STORZ Touch Screen **20** 0903 37 and **20** 0904 37
041165-20*	**Sterile Cover,** for 15" KARL STORZ touch screen
041265-20*	**Sterile Cover,** for 19" KARL STORZ touch screen

* mtp medical technical promotion gmbh,
Take-Off GewerbePark 46, D-78579 Neuhausen ob Eck, Germany

Component Parts see COMPONENTS, SPARE PARTS

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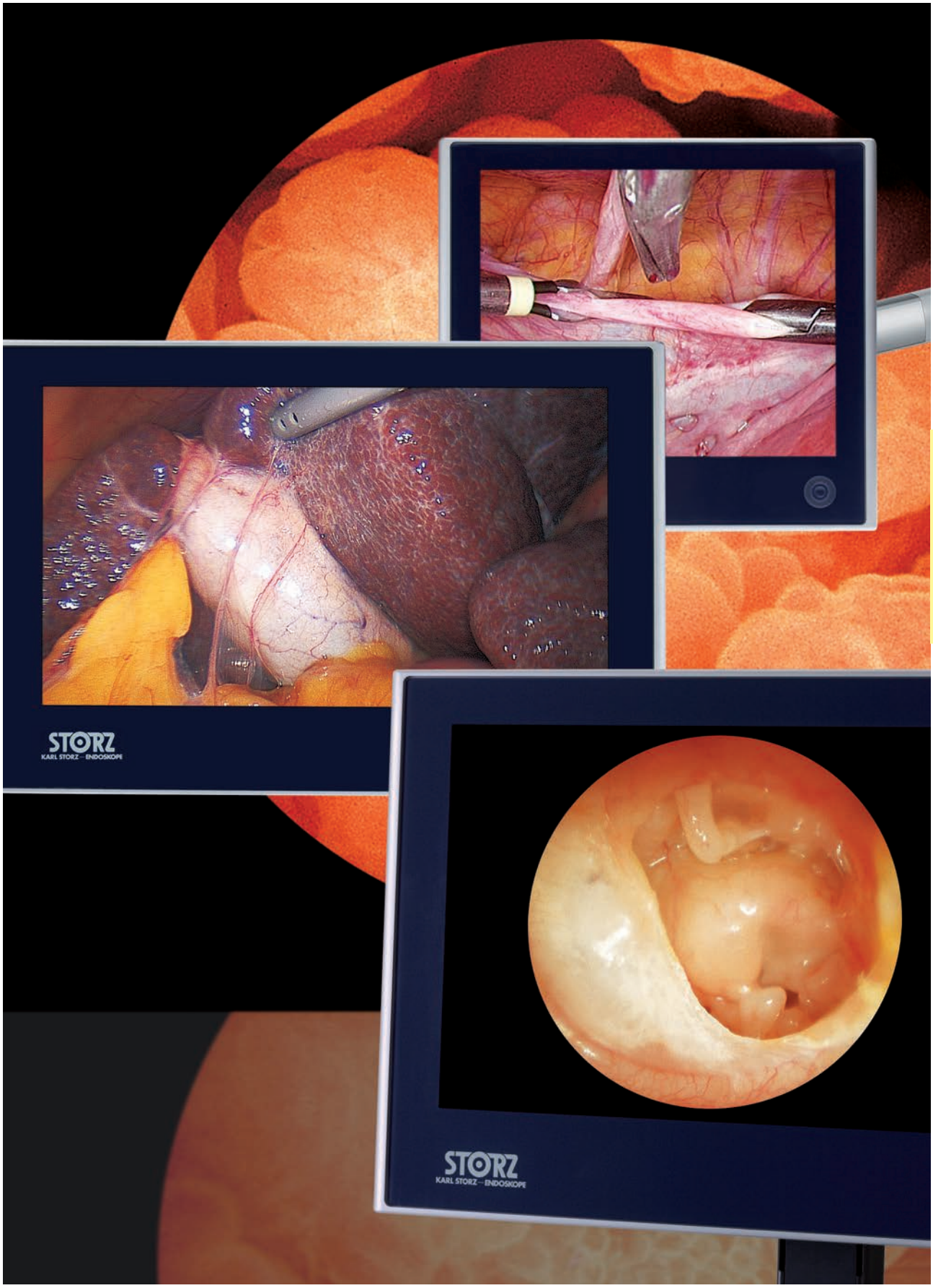
Accessories

for AIDA compact NEO advanced/standard

	29005 SZ	**Monitor Swivel Arm,** height and side adjustable, can be mounted on the left or on the right side, swivel range 180°, reach 600 mm, for side boom as of 800 mm, loading capacity max. 14 kg, with monitor holder VESA 75/100, for Equipment Cart 29005 LAP/GU/BAS
	20 0402 73	**Bar Code Scanner**
	9370 TQ	**Color Ink Jet Printer,** with horizontal paper feed, incl. mains cord, USB printer cable, length 200 cm, black and color ink jet cartridges
	9372 LA	**Color Laser Printer,** including mains cord, USB printer cable, length 200 cm
	20 0902 34	**PS/2 Compact Keyboard,** German version, with cover
	20 0402 40US	**Silicone Keyboard,** with US English character set, USB plug, with touchpad
	20 0144 30	**Two-Pedal Footswitch,** two-stage

	20 0402 72	**SVGA Connecting Cable,** length 600 cm
	20 0400 73	**RS 232 Connecting Cable,** length 600 cm
	20 0400 74	**Printer Cable,** length 300 cm
	20 0401 74	**Printer Cable,** length 500 cm
	20 0103 70	**Potential Equalization Cable,** length 200 cm
	20 0102 70	**Potential Equalization Cable,** length 500 cm
	W20475	**OR1™ Network Isolator,** for galvanic decoupling of units with RJ45 network connection (100 Mbit)
	20 0900 34	**Ethernet Network Board,** 10/100 Mbit/s
	20 0900 37	**Fiber Optic Network Board,** 100 Base-FX (SC)
	20 0901 71	**Fiber Optic Network Cable,** LWL-patch cable with ST and SC plugs, configured, length 100 cm
	20 0900 36	**Media Converter,** converts a ST-Port 100 Base-FX to a RJ45 100 Base-TX, including power supply
	20 0400 76	**RJ45 Network Cable,** length 500 cm
	20 2040 80	**CD-R,** 700 MB, package of 10
	20 2040 81	**DVD+RW,** 4.7 GB, package of 5
	20 2040 82	**DVD+R,** 4.7 GB, package of 10
	20 2040 83	**DVD-R,** 4.7 GB, package of 10

Monitors



KARL STORZ FULL HD Monitors NEW

Sophisticated Design in Excellent Quality

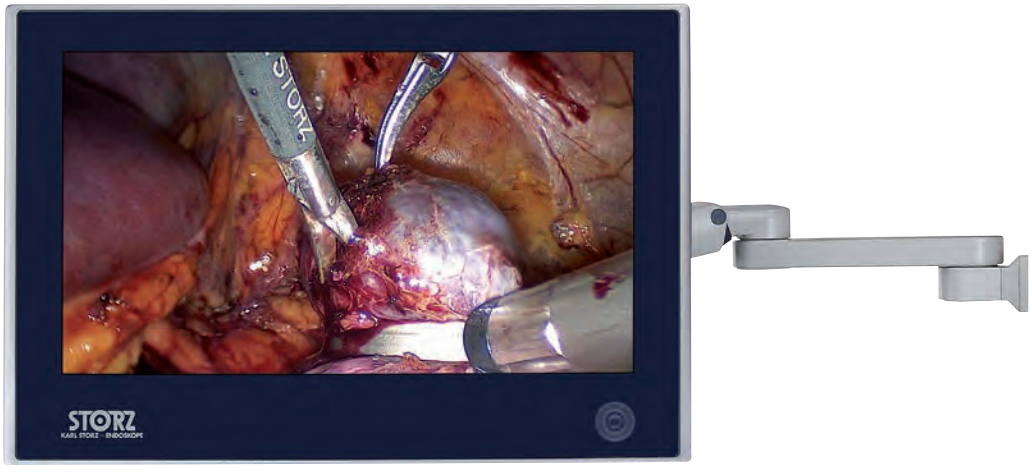
The new KARL STORZ monitor series offers the user superior quality combined with outstanding product characteristics that are optimally matched to FULL HD applications in endoscopy. The high-quality aluminium housing in the exclusive KARL STORZ design has been given a silicium dioxide nanocoating finish. The closed housing enables easy cleaning of the monitor through wipe disinfection and thus guarantees optimal hygiene.

The latest electronic technology provides a Picture-in-Picture function, 90° image rotation as well as horizontal and vertical mirror imaging. Input signals are captured directly and immediately transmitted to the display, saving time in the OR. DVI inputs and outputs guarantee flawless endoscopic FULL HD images with a resolution of 1920 x 1080 pixels in 16:9 format. The progressive scan technology of the KARL STORZ FULL HD system provides imaging with minimal latency, even when there is rapid movement.

The innovative LED backlight technology reduces power consumption and expands the service life of the monitors. Easy and intuitive handling via a ring slider provides immediate feedback on the display. The inbuilt RS 232 interface permits remote control of the monitor, enabling integration of the monitor in the KARL STORZ OR1™ system.

Special Features:

- **1920 x 1080 pixels, 50/60 Hz in progressive mode, 16:9 format**
- **High-quality, fully enclosed housing with nanocoating finish for optimal cleaning and disinfection requirements**
- **Excellent hygiene characteristics with minimum thermal radiation**
- **Intuitive use without function keys via ring slider behind closed glass front**
- **Optional fiber connector available**
- **Easy integration into KARL STORZ OR1™ system**
- **High level of flexibility due to diverse connection possibilities**
- **Low voltage protection via external 24VDC mains power supply**
- **VESA 100 adaptor for flexible installation options**
- **Fast response time for imaging with minimal latency**
- **Premium model with dual video inputs available**
- **Natural color rendition due to optimal integration into the KARL STORZ FULL HD video chain**
- **26" monitor with LED backlight for low energy consumption and longer service life for the monitors**
- **Picture-in-Picture (PiP) and Picture-by-Picture (PbP) display**
- **Special settings for mirror imaging and image rotation**
- **Medical grade FDA, UL and CE approval**



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9619 NB

9626 NB/NB-2

KARL STORZ HD and FULL HD Monitors	19"	26"	26"
Wall mounted with VESA 100 adaption	9619 NB	9626 NB	9626 NB-2
Inputs:			
DVI-D	1x	1x	2x
Fiber Optic	optional	optional	optional
RGBS/VGA	1x	1x	2x
S-Video	1x	1x	2x
Composite/FBAS	1x	1x	2x
Outputs:			
DVI-D	●	●	●
S-Video	●	●	●
Composite/FBAS	●	●	●
Signal Format Display:			
4:3	●	●	●
5:4	●	●	●
16:9	●	●	●
Picture-in-Picture	●	●	●
PAL/NTSC compatible	●	●	●

The following accessories are included:
Mains Cord
External 24VDC Power Supply
Signal cables: DVI-D, BNC

Optional accessories:
9626 SF **Pedestal,** for 96xx monitor series

Specifications:

KARL STORZ FULL HD Monitors	19"	26"
Desktop with pedestal	optional	optional
Wall mounted with 100 adaption	9619 NB	9626 NB/NB-2
Brightness	280 cd/m²	400 cd/m²
Max. viewing angle	178° vertical	178° vertical
Pixel distance	0.29 mm	0.30 mm
Reaction time	12 ms	12 ms
Contrast ratio	700:1	700:1
Mount	100 mm VESA	100 mm VESA
Weight	10 kg	14 kg
Rated power	120 W	120 W
Operating conditions	0-40°C	0-40°C
Storage	-20-60°C	-20-60°C
Rel. humidity	max. 80%	max. 80%
Dimensions w x h x d	469.5 x 416 x 75.5 mm	699 x 445.6 x 87.5 mm
Power supply	85-264 VAC	85-264 VAC

Larger KARL STORZ FULL HD Monitors see catalog KARL STORZ OR1 NEO™
Signal cables see page TP 50

KARL STORZ HD, HD WIDEVIEW™ and HD LED Backlight Monitors

Special Features:

- **FULL HD display in 16:9 HD format, max. resolution of 1920 x 1200 pixels**
- **1080p/50 and 1080p/60 displays possible, PAL/NTSC compatible**
- **Anti-reflection coated front glass**
- **Compact and lightweight design**
- **Easy-to-reach control buttons on the housing front**
- **Dripwater protected, dustproof housing**
- **Low voltage protection via external 24VDC mains power supply**
- **VESA 100 adaptor for flexible installation options**
- **Fast response time for virtually lag-free imaging**
- **Optional fiber optic input for OR1™ integration**
- **Picture-Perfect technology for true-to-life image reproduction that incorporates deinterlacing algorithms**
- **Picture-in-Picture display (PiP)**
- **Up to 5 different user profiles can be stored**
- **Meets the medical requirements for FDA, UL and CE approval**
- **26" monitor with LED backlight for low energy consumption and longer service life for the monitors**

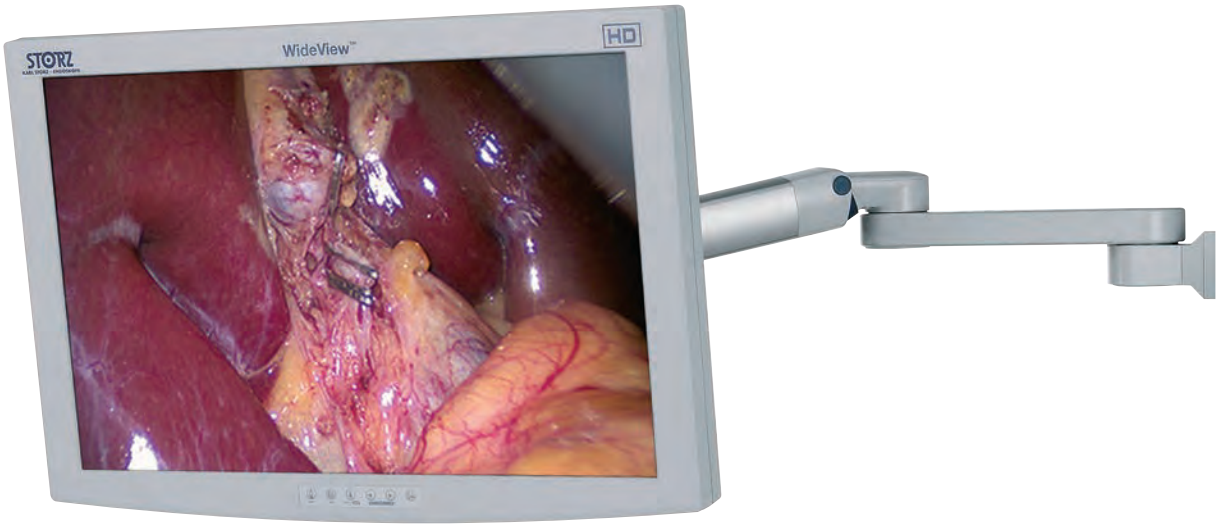

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IMAGE 1 HD

9515 NB, 9519 NB
9524 NB/NBO, 9526 NBL, 9726 NB

	TFT Flat Screens		HD WIDEVIEW Monitors		
	15"	19"	24"	26"	
Wall mounted with VESA 100 adaption	9515 NB	9519 NB	9524 NB	9526 NBL	9726 NB
Inputs:					
SDI	●	●	–	–	–
HD-SDI	●	●	●	●	●
3G-SDI	–	–	–	●	●
RGBS	●	●	●	●	●
S-Video	●	●	●	●	●
Composite/FBAS	●	●	●	●	●
SOG	–	●	●	●	●
DVI-D	●	●	●	●	●
Fiber Optic	–	–	–	–	●
VGA	●	●	●	●	●
Outputs:					
SDI	–	●	●	●	●
HD-SDI	–	●	●	●	●
3G-SDI	–	–	–	●	●
RGBS	–	●	●	●	●
S-Video	–	●	●	●	●
Composite/FBAS	–	●	●	●	●
DVI-D	–	●	●	●	●
Signal Format Display:					
4:3	●	●	●	●	●
5:4	–	●	●	●	●
16:9	–	–	●	●	●
16:10	–	–	●	–	–
Picture-in-Picture	–	●	●	●	●
PAL/NTSC compatible	●	●	●	●	●

The following accessories are included:
Mains Cord
External 24VDC Power Supply
Signal cables

Optional accessories:
9526 SF **Pedestal,** for 15", 19", 24" and 26" monitors for the 95xx or 97xx series

Larger KARL STORZ FULL HD Monitors see catalog KARL STORZ OR1 NEO™
Signal cables see page TP 50

KARL STORZ HD, HD WIDEVIEW™ and HD LED Backlight Monitors

Specifications:

Wall mounted with VESA 100 adaption	**15"** 9515 NB	**19"** 9519 NB	**24"** 9524 NB	**26"** 9526 NBL	**26"** 9726 NB
Brightness	430 cd/m²	300 cd/m²	400 cd/m²	400 cd/m²	800 cd/m²
Max. viewing angle	178° vertical	178° vertical	178° vertical	178° vertical	178° vertical
Pixel distance	0.297 mm	0.294 mm	0.270 mm	0.3 mm	0.3 mm
Reaction time	10-15 ms	10-16 ms	5-12 ms	8 ms	8 ms
Contrast ratio	500:1	600:1	1000:1	1000:1	1000:1
Mount	100 mm VESA	100 mm VESA	100 mm VESA	100 mm VESA	100 mm VESA
Weight	4.8 kg	6.8 kg	7.3 kg	7.3 kg	8.2 kg
Rated power	40 Watt	65 Watt	115 Watt	60 Watt	130 Watt
Operating conditions	0-40 °C	0-38 °C	0-40 °C	0-40 °C	0-40 °C
Storage	-20-60 °C	-20-60 °C	-20-60 °C	-20-60 °C	-20-60 °C
Rel. humidity	5-85%, non-condensing	5-85%, non-condensing	20-85%, non-condensing	20-85%, non-condensing	20-85%, non-condensing
Dimensions w x h x d	386 x 302 x 81 mm	465 x 400 x 98 mm	597 x 401 x 100 mm	73 x 418 x 88 mm	673 x 418 x 88 mm
Power supply	100-240 VAC	100-240 VAC	100-240 VAC	100-240 VAC	100-240 VAC

9515 NB **15" Monitor**

wall-mounted with VESA 100 adaption, color systems **PAL/NTSC,** max. screen resolution 1024 x 768, power supply 100 – 240 VAC, 50/60 Hz

including:

Power Supply, flat screens

Signal cables: S-Video (Y/C), DVI-D

9519 NB **19" HD Monitor**

wall-mounted with VESA 100 adaption, color systems **PAL/NTSC,** max. screen resolution 1280 x 1024, power supply 100 – 240 VAC, 50/60 Hz

including:

Power Supply

Mains Cord

Signal cables: DVI-D, BNC

9524 NB **24" HD WIDEVIEW Monitor**

wall-mounted with VESA 100 adaption, color systems **PAL/NTSC,** max. screen resolution 1920 x 1200, image format 16:10, power supply 100 – 240 VAC, 50/60 Hz

including:

Power Supply

Mains Cord

Signal cables: DVI-D, BNC

LED Backlight Monitors NEW

9526 NBL **26" HD Monitor with LED Backlight**

wall-mounted with VESA 100 adaption, color systems **PAL/NTSC**, max. screen resolution 1920 x 1080, image format 16:9, power supply 100 – 240 VAC, 50/60 Hz

including:

Power Supply

Mains Cord

Signal cables: DVI-D, BNC

9726 NB **26" HD Monitor (Highbright with LED Backlight)**

wall-mounted with VESA 100 adaption, optical input, color systems PAL/NTSC, max. screen resolution 1920 x 1080, image format 16:9, power supply 100 – 240 VAC, 50/60 Hz

including:

Power Supply

Mains Cord

Signal cables: DVI-D, BNC

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Signal cables see page TP 50
Component Parts see COMPONENTS, SPARE PARTS

15" and 19" Touch Screens

20 0904 03/**20** 0904 06

20 0904 01/**20** 0904 05

KARL STORZ Touch Screens	**15"**	**19"**
Desktop with pedestal	**20** 0904 03	**20** 0904 06
Wall mounted with VESA 75/100 adaption	**20** 0904 01	**20** 0904 05
Inputs:		
VGA	●	●
SVGA	●	●
XGA	●	●
SXGA	–	●
Screen Diagonal:		
38 cm	●	–
48 cm	–	●
Max. Screen Resolution:		
1024 x 768	●	–
1280 x 1024	–	●

Specifications:

KARL STORZ Touch Screens	**15"**	**19"**
Desktop with pedestal	**20** 0904 03	**20** 0904 06
Wall mounted with VESA 75/100 adaption	**20** 0904 01	**20** 0904 05
Monitor type	TFT-LCD monitor with active matrix	TFT-LCD monitor with active matrix
Display	304 x 228 mm	376 x 301 mm
Touch screen	AccuTouch	AccuTouch
Colors	16 million with pixel shading	16 million with pixel shading
Brightness	250 cd/m² (typ.)	250 cd/m² (typ.)
Viewing angle	horizontal total 80° vertical insg. 80°	horizontal total 85° vertical insg. 85°
Contrast ratio	400:1 (typ.)	500:1 (typ.)
Monitor reaction time	25 ms	25 ms
Pixel distance	0.30 mm	0.29 mm
Input signal level	0.7 Vpp	0.7 Vpp
Rated power	48 VA	90 VA
Connections	- D-Sub - VGA-compatible analog-RGBS	- D-Sub - VGA-compatible analog-RGBS
Power supply	100-240 VAC, 50/60 Hz	100-240 VAC, 50/60 Hz
Certified to	EN 60601-1, CSA 22.2 No. 601.1, UL 2601-1	EN 60601-1, CSA 22.2 No. 601.1, UL 2601-1
Mechanical values	- weight: max. 6.5 kg - dimensions w x h x d: 375 x 356 x 205 mm	- weight: max. 10.5 kg - dimensions w x h x d: 432 x 467 x 251 mm

20 0904 01 **15" KARL STORZ Touch Screen**

wall-mounted, VGA/SVGA/XGA, resolution max. 1024 x 768 (XGA mode), power supply 100 – 240 VAC, 50/60 Hz, with mains adaptor, CD driver and 3 touch screen covers

including:

Touch Pen

Adaptor, VESA 75

Signal cables: RS 232, SVGA

20 0904 03 **15" KARL STORZ Touch Screen**

desktop, VGA/SVGA/XGA, resolution max. 1024 x 768 (XGA mode), power supply 100 – 240 VAC, 50/60 Hz, with mains adaptor, CD driver and 3 touch screen covers

including:

Touch Pen

Pedestal

Signal cables: RS 232, SVGA

20 0904 05 **19" KARL STORZ Touch Screen**

wall-mounted, VGA/SVGA/XGA/SXGA, resolution max. 1280 x 1024 (SXGA mode), power supply 100 – 240 VAC, 50/60 Hz, with mains adaptor, CD driver and 3 touch screen covers

including:

Touch Pen

Signal cables: RS 232, SVGA

20 0904 06 **19" KARL STORZ Touch Screen**

desktop, VGA/SVGA/XGA/SXGA, resolution max. 1280 x 1024 (SXGA mode), power supply 100 – 240 VAC, 50/60 Hz, with mains adaptor, CD driver and 3 touch screen covers

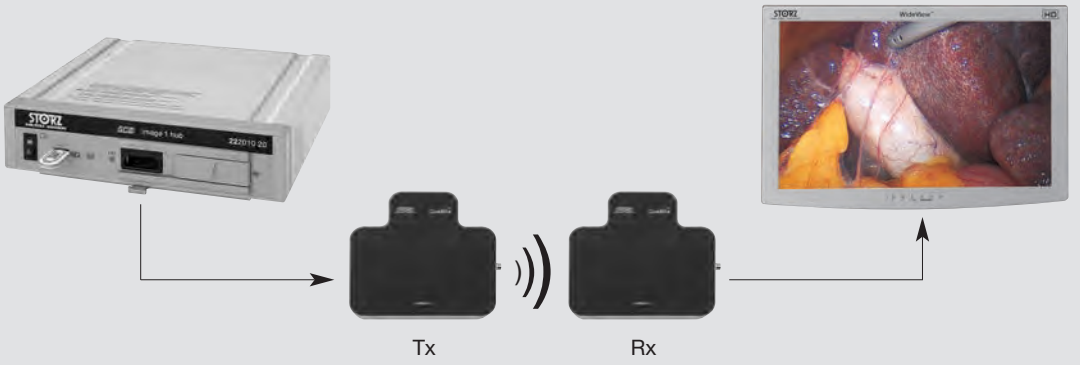
including:

Touch Pen

Pedestal

Signal cables: RS 232, SVGA

Signal Cables see page TP 50
Component Parts see COMPONENTS, SPARE PARTS



The new ZeroWire video transmission system from KARL STORZ enables the wireless integration of secondary monitors into the camera system.

Developed specifically for use in the OR area, ZeroWire replaces the DVI cable between the Camera Control Unit (CCU) and the monitor. The unit simplifies the installation of additional monitors in the OR. ZeroWire optimizes the clinic workflow and reduces preparation time in the operating rooms. ZeroWire offers the user the best FULL HD quality for wireless connections available on the market.

KARL STORZ ZeroWire comprises a transmitter and receiver that transmit FULL HD video signals from IMAGE1 HD CCU to a secondary monitor. Costly and sensitive light fibers or DVI cables are no longer required. ZeroWire delivers 1080p FULL HD imagery with minimal latency which is ensured by the H.264 compression method. This also provides razor-sharp image quality that can barely be distinguished from a conventional DVI connection.

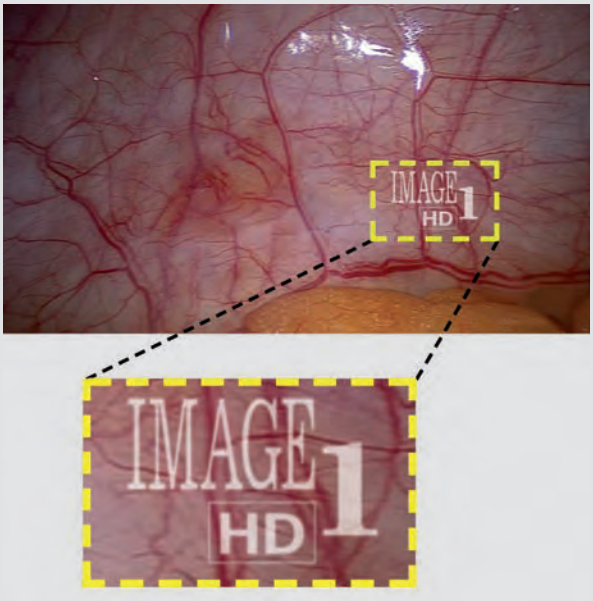
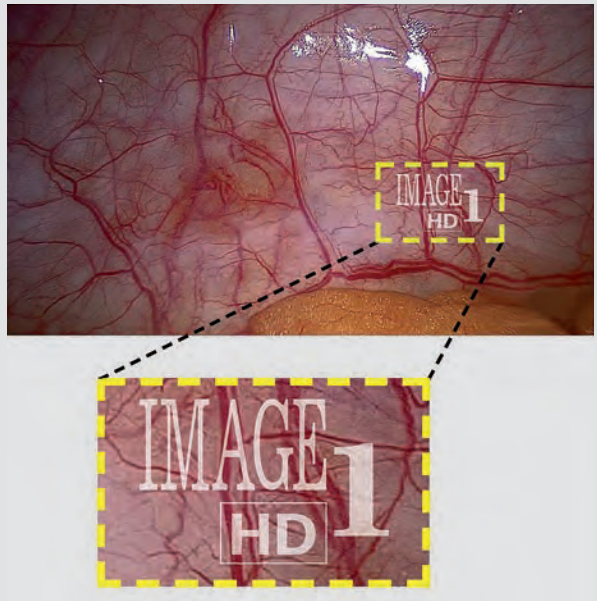


Image quality of a competitor



Very high image quality with ZeroWire

Comparison of the image quality of a competitor with ZeroWire from KARL STORZ. ZeroWire image quality of a transmitted video can barely be distinguished from a DVI connection.

9500 ZW

9500 ZW	**ZeroWire Video Transmission Set,** transmitter and receiver including: 2x **Radiance Y-Cable 19"/26"** 2x **VESA Holder 24"/26"** 2x **VESA Holder 19"/23"** 2x **2ft DVI-D Cable,** for CCU-Tx and Monitor-Rx connection **Instruction Manual**

Further Accessories:

9500 ZW-1	**ZeroWire 42"/52"/55",** accessory for video transmission set, with 2ft DVI-D cable, power supply and VESA holder 42"/52"/55"
9500 ZW-2	**ZeroWire 2ft Spare DVI-D Cable,** for CCU-Tx and Monitor-Rx connection
9500 ZW-4	**ZeroWire Power Supply**
9500 ZW-5	**ZeroWire Table Stand**
9500 ZW-6	**ZeroWire Radiance Y-Cable 19"/26",** for looping into the monitor power supply
9500 ZW-7	**ZeroWire VESA Holder,** for mounting a transmitter or receiver to a 24" or 26" monitor
9500 ZW-8	**ZeroWire VESA Holder,** for mounting a transmitter or receiver to a 19" or 23" monitor
9500 ZW-9	**ZeroWire VESA Holder,** for mounting a transmitter or receiver to 42", 52" and 55" monitors

Component Parts see COMPONENTS, SPARE PARTS

Color Monitors

for Video Cameras, Color Systems PAL/NTSC, without IEC 60601-1 certification

KARL STORZ — ENDOSKOPE

69274 N	**LCD Color Monitor**

NeovoX-17B, desktop version, color systems **PAL/NTSC,** resolution max. 1280 x 1024, power supply 100 – 240 V, screen 17", 1x S-Video in, 1x DVI-D, VGA input

Specifications:

Monitors	**69273 N**
Color Systems	PAL, NTSC
Screen Diagonal	35 cm
Inputs/Outputs	- Composite signal to BNC socket - S-Video signal to 4 pin Mini-DIN socket - VGA input
Power Input	48 Watt
Dimensions w x h x d	343 x 354 x 264 mm
Weight	6.5 kg
Power Supply	100-240 VAC, 50 Hz

Accessories and Optional Accessories

for HD WIDEVIEW Monitors,
TFT Flat Screens and Touch Screens

KARL STORZ — ENDOSKOPE

Accessories			for use with: HD WIDEVIEW Monitors	TFT Flat Screen	Touch Screens
	400 A	**Mains Cord,** length 300 cm	●	●	–
	9523 PS	**External 24VDC Power Supply**	●	–	–
	9415 NSF	**Pedestal** (only 9415 NN)	–	●	–
	9419 NSF	**Pedestal** (only 9419 N, 9519 N, 9523 N, 9524 N/NO)	●	●	–
	9526 SF	**Pedestal,** for 15", 19", 24" and 26" monitors for the 95xx or 97xx series	●	–	–
	20 0904 86	**Pedestal,** for 15" KARL STORZ Touch Screen **20** 0903 31	–	–	●
	20 0903 86	**Touch Pen,** for KARL STORZ touch screens	–	–	●
	20 0400 73	**RS 232 Connecting Cable,** length 600 cm	–	–	●
	20 0402 72	**SVGA Connecting Cable,** length 600 cm	–	–	●
	20 0904 83	**Adaptor,** VESA 75	–	–	●
	20 0904 87	**Pedestal,** for 19" KARL STORZ Touch Screen **20** 0903 37 and **20** 0904 37	–	–	●
Optional Accessories					
	9419 PS	**Power Supply**	–	●	–
	20 0904 81 **20** 0904 88	**Mains Adaptor,** for 15" KARL STORZ Touch Screen **20** 0903 31, with 300 cm low voltage cable **Same,** with 10 m low voltage cable	–	–	●
	20 0904 85	**Mains Adaptor,** for 19" KARL STORZ Touch Screen **20** 0904 37, with 300 cm low voltage cable	–	–	●
	041165-20* 041265-20*	**Sterile Cover,** for 15" KARL STORZ touch screen **Sterile Cover,** for 19" KARL STORZ touch screen	–	–	●

MONITORS

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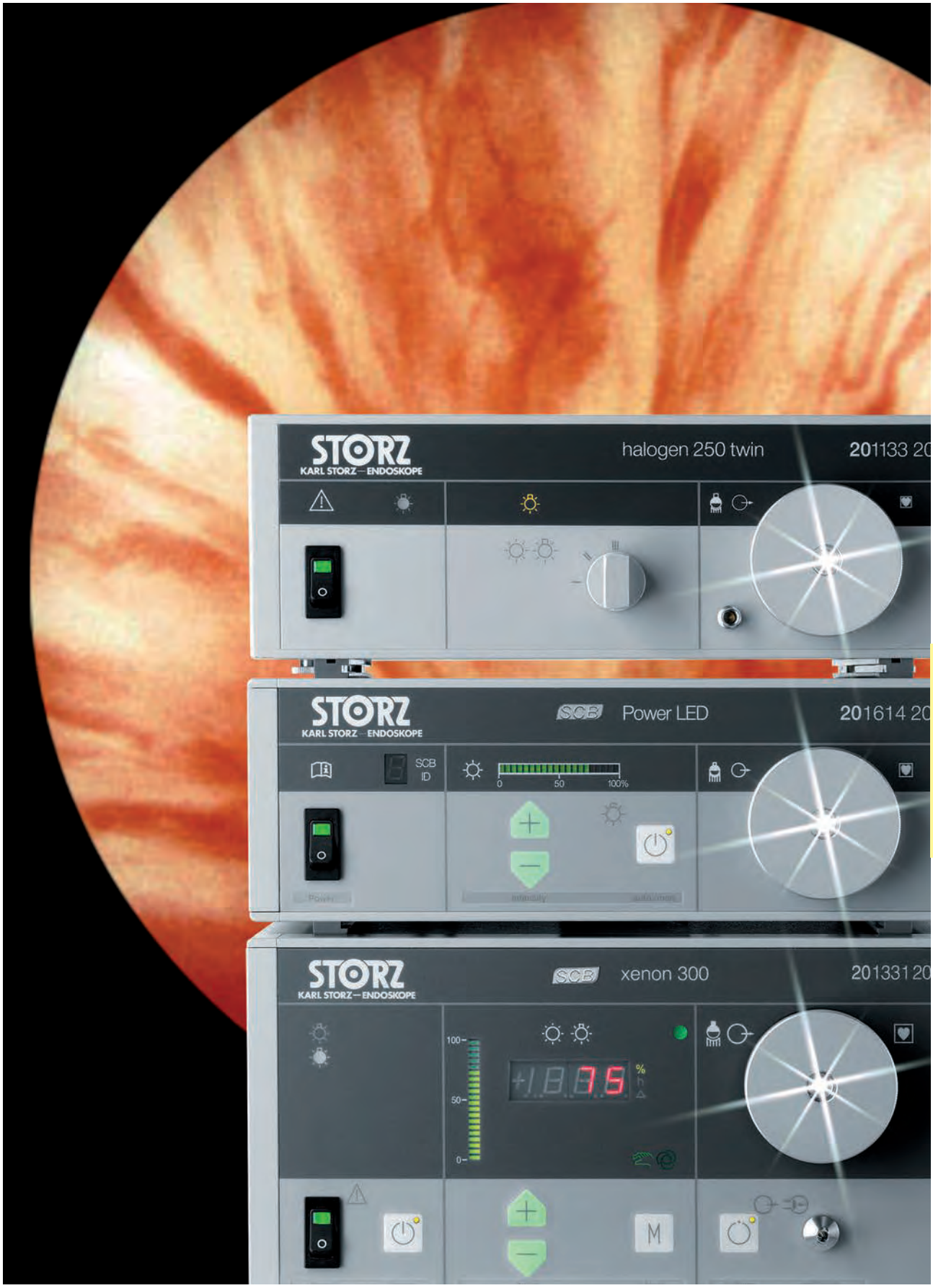
* mtp medical technical promotion gmbh,
Take-Off GewerbePark 46, D-78579 Neuhausen ob Eck, Germany

MONITORS

Light Sources



Cold Light

In 1960, Karl Storz discovered that it was possible to transmit light with fiber optic light cables. This discovery marked the birth of cold light endoscopy. From a light source outside the body, light is transmitted via a fiber optic light cable through an endoscope to the examination site. A patent was granted for this new type of light transmission.

Only specific and particularly powerful Halogen, LED or Xenon light sources are used in today's cold light projectors from KARL STORZ.

A widely recognized feature of the KARL STORZ illumination system is the perfectly matched light system, consisting of a lamp and a concave mirror which project light evenly and effectively onto the surface of the light guide.

A vaporized concave mirror, or the so-called cold light mirror, is designed to reflect visible light while allowing the transmission of infrared radiation.

Light and Radiation

"Light" often refers to the portion of electromagnetic radiation visible to the human eye. The sun emits some of the energy powered by nuclear fusion at 4 and 11 million Kelvin from the solar photosphere which has a temperature of approximately 5800 Kelvin. Only those rays with wavelengths exceeding 295 nm reach the Earth's surface. Other rays are absorbed by the ozone layer in the upper atmosphere so that we are provided with relatively good protection against ultraviolet solar radiation.

There are no exact bounds to the optical spectrum as this can only be determined according to the amount of radiation reaching the retina as well as the eye sensitivity of the individual observer. The lower limit is generally considered to be between 360 nm and 400 nm and the upper limit between 760 nm and 830 nm.

Most solar radiation is located in the green part of the spectrum and it is no coincidence that the human eye is most sensitive to light at this wavelength. On the one hand, solar radiation is our most important source of radiation, light and heat and, on the other, it has influenced the development of a highly sensitive light sensor system in humans.

To measure the eye's response to light, all light processes are measured in accordance with the sensitivity curve of the human eye.

Light output or luminous flux is derived from this radiant power, which is expressed in lumens. The lumen is the basic parameter in lighting technology for light intensity, illumination, and luminance.

Although the light output of a lamp, i.e. the ratio between the radiated luminous flux and generated electric power expressed in lumens/watts (light output = lumen/watt), is only one of many features to be considered when choosing a particular lamp for a specific application, it is nevertheless one of the most important parameters. A high light output offers the commercial benefit of low energy costs as well as an ecological advantage of resource conservation. These aspects are becoming increasingly important due to growing environmental consciousness. KARL STORZ also has a strong focus on these environmental values and continues to lead the market in this area.

To achieve high light output, it is necessary that:

- Energy in the lamp is generated by means of highly efficient processes
- Radiance should have a high amount of visible light
- Heat emission to the environment is low by means of good conduction and convection.

Color Temperature

Light output and color temperature are closely related as the human perception of light has undergone a long evolutionary process under the influence of solar radiation. The human eye is most sensitive to light at about 555 nm, i.e. in the green area of the spectrum. Sensitivity drops off at the red and at the blue ends and disappears completely at about 380 nm and 750 nm. Sunshine has a temperature of 5800 Kelvin.

In contrast, light sources subject to the laws of physics have a completely different spectral distribution. Therefore such processes are required that transmit as much radiation as possible to the area of the eye governing sensitivity. The generation of light through thermal radiation is an important feature of illumination technology. This applies to both incandescent and gas discharge lamps so that the color spectrum, i.e. color temperature, can be assigned a single numerical measurement.

In accordance with the latest technology, LED (light-emitting diodes) are also used. In contrast to **incandescent light bulbs,** light-emitting diodes are not **heat generators.** LEDs emit narrow-specturm light, which is virtually **monochrome.**

The following table provides a definition and a classification of color temperatures:

Color Temperature	Color of Light
< 3300 Kelvin	Warm white
3300 – 5000 Kelvin	Neutral white
6000 Kelvin	Daylight white
6400 Kelvin	Daylight white LED

Cold Light Fountain HALOGEN

Cold Light Fountain HALOGEN

Overview

KARL STORZ — ENDOSKOPE

Cold Light Fountain VETERINARY

Cold Light Fountain HALOGEN 250 twin

Halogen Reflector Lamps

The light bulb owes its comeback not just to halogen technology but to a larger extent to the glass reflectors associated with halogen lamps. The surface of these lamps are specially designed for optimal light focus. A further technical feature is the multi-layered coating on the surface which reduces thermal stress in the light bundle by 60%. This is why these lamps are also called cold light mirror reflector lamps. Further technical benefits include a halogen light bulb with an axial coil for optimal light directability, which is especially useful for light output in cold light sources, and a special quartz glass bulb which retains UV radiation. It is possible to raise the temperature of the coil in these lamps to 3400 Kelvin to produce a whiter light than that of standard light bulbs (2800 Kelvin).

A special feature of these lamps is that light can be directed where required, i.e., onto a particular point.

All KARL STORZ halogen cold light sources of at least 150 Watt are suitable for all types of endoscopic procedures. Integrated light intensity adjustment allows illumination to be adapted to a specific OR situation. The halogen cold light models have a color temperature of approximately 3400 Kelvin.

The lamp systems optimized by KARL STORZ provide high light output and their modern design ensures ease of use as well as unproblematic service and exchange of light sources.

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Cold Light Fountain VETERINARY

Special Features:

- **Compact design**
- **Optimum lighting power**
- **Manual light intensity control, 3 settings**
- **Integrated insufflation pump**

69 1110 01	**Cold Light Fountain VETERINARY**

with integrated insufflation pump, power supply 230 VAC, 50/60 Hz

including:

Mains Cord

69 1110 01 C	**Same**

Power supply 115 VAC, 50/60 Hz

Specifications:

Lamp type	Halogen 24 V, 150 Watt
Color temperature	approx. 3400 K
Light outlets	1
Light intensity adjustment	in 3 steps

Dimensions w x h x d	305 x 84 x 265 mm
Weight	6 kg
Certified to	IEC 601-1, CE acc. to MDD, protection class 1/CF

Spare Lamps for Cold Light Fountains HALOGEN see page TP 89
Component Parts see COMPONENTS, SPARE PARTS

Cold Light Fountain HALOGEN 250 twin

Special Features:

- **Compact and lightweight design**
- **Automatic backup operation in case of lamp failure**
- **Manual light intensity control**

20 1133 01 **Cold Light Fountain HALOGEN 250 twin**

power supply 100/120/230/240 VAC, 50/60 Hz
including:
Mains Cord

Specifications:

Lamp type	HALOGEN 24 V, 250 Watt
Color temperature	approximately 3400 K
Light outlets	1
Light intensity adjustment	adjustable in 3 steps

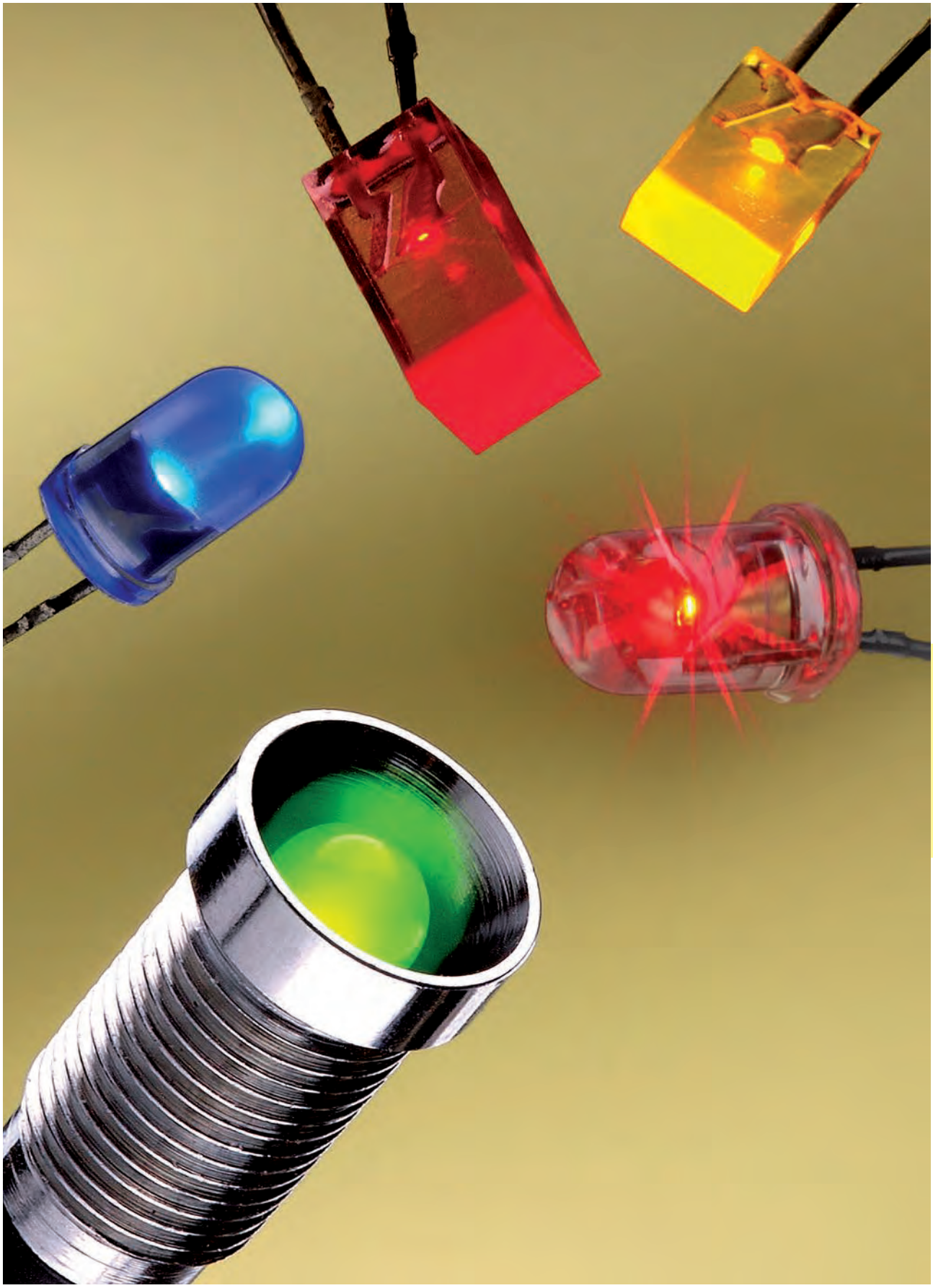
Dimensions w x h x d	305 x 109 x 265 mm
Weight	7 kg
Certified to	IEC 601-1, CE acc. to MDD, protection class 1/CF

Spare Lamps for Cold Light Fountains HALOGEN see page TP 89
Component Parts see COMPONENTS, SPARE PARTS

			for use with: Cold Light Fountain VETERINARY	for use with: Cold Light Fountain HALOGEN 250 twin
	103	**Halogen Spare Lamp,** 150 W, 15 V	●	–
	105	**Halogen Spare Lamp,** 250 W, 24 V	–	●

LIGHT SOURCES

Cold Light Fountain LED



Cold Light Fountain LED

Cold Light Fountain LED NOVA 150

NEW

Cold Light Fountain LED NOVA 100 twin

NEW

Cold Light Fountain Power LED 175 SCB

SCB®

NEW

Cold Light Fountains LED

The advantages of LED (Light Emitting Diode) light sources over conventional light sources are clear to see: LEDs combine high luminance with a very long service life. The average operational life of LED lamps is 30,000 hours: this results in considerable savings in maintenance costs as the need to change lamps is virtually eliminated.

Minimal heat generation also offers a number of advantages. As ventilation is no longer required to cool lamps, disturbing fan noises are a thing of the past. With an optimized ventilation system, it is possible to construct LED cold light fountains with a more compact housing. This frees up valuable space on the PC tower or in the OR.

With a color temperature of approx. 6400 K, LEDs provide natural daylight coloration. This enables exact color reproduction and, therefore, a more accurate diagnosis of the examined tissue.

A self-evident yet nevertheless extremely important factor is that all KARL STORZ light cables can easily be connected to all LED cold light sources.

Key Features and Benefits:

- High energy efficiency
- Quiet operation: No fan noise
- High environmental performance: No lead or mercury
- Economic benefits

The following LED light sources are available:

- LED NOVA 150
- LED NOVA 100 twin
- Power LED 175

Cold Light Fountain LED NOVA 150 NEW

KARL STORZ — ENDOSKOPE

Special Features:

- **The best of both worlds: High cost-effectiveness coupled with bright and durable LED technology**
- **Average lamp life of approx. 30,000 hours**
- **Very high energy efficiency with the latest LED technology**
- **Extremely quiet operation combined with minimal heat generation**
- **High environmental performance as neither lead nor mercury are used in the LED lamp**
- **Continuously variable, adjustable brightness control**

20 1612 01 **Cold Light Fountain LED NOVA 150**

power supply 100 – 240 VAC, 50/60 Hz
including:
Mains Cord

Specifications:

Lamp type	high-performance LED
Color temperature	approximately 6400 K
Light outlets	1
Dimensions w x h x d	305 x 84.5 x 238 mm
Weight	2.3 kg
Certified to	IEC 601-1, protection class 1/CF

Component Parts see COMPONENTS, SPARE PARTS

Cold Light Fountain LED NOVA 100 twin NEW

KARL STORZ — ENDOSKOPE

Special Features:

- **No ventilator, low noise level**
- **Average lamp life of approx. 23,000 hours**
- **Suitable for all KARL STORZ standard light cables**
- **Compact, lightweight construction**

20 1611 01 **Cold Light Fountain LED NOVA 100 twin**

with two LED lamps and two light outlets, power supply 110 – 240 VAC, 50/60 Hz

including:

Mains Cord

LIGHT SOURCES

Specifications:

Lamp type	LED
Color temperature	approximately 6400 K
Light outlets	2
Dimensions w x h x d	305 x 84.5 x 243 mm
Weight	3.8 kg
Certified to	IEC 601-1, protection class 1/CF

Component Parts see COMPONENTS, SPARE PARTS

2-12

Cold Light Fountain Power LED 175 SCB

NEW

KARL STORZ — ENDOSKOPE

Special Features:

- **Low noise level**
- **Powerful LED light source similar to Xenon technology**
- **Lamp life of approx. 30,000 hours**
- **Energy-saving due to adjustable brightness control**
- **High serviceability**
- **SCB – light source control possible via KARL STORZ Communication Bus**

20 1614 01-1 **Cold Light Fountain Power LED 175 SCB**

power supply 110 – 240 VAC, 50/60 Hz

including:

Mains Cord

SCB Connecting Cable

Specifications:

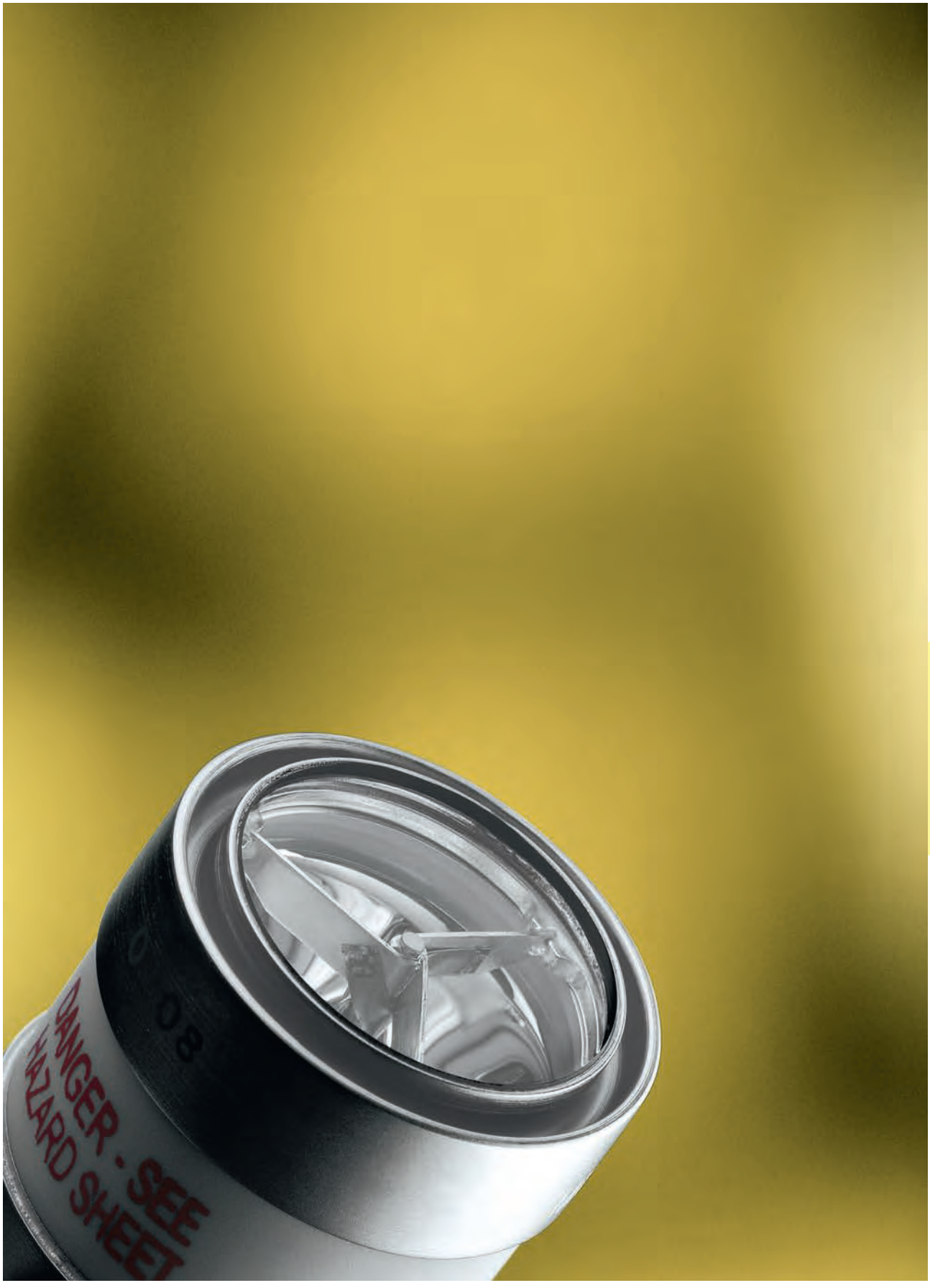
Lamp type	high-perfomance LED
Color temperature	approximately 6400 K
Light adjustment	in 20 steps
Light outlets	1
Dimensions w x h x d	305 x 110 x 233 mm

Weight	4 kg
Certified to	IEC 601-1, protection class 1/CF
miscellaneous	two SCB ports

Component Parts see COMPONENTS, SPARE PARTS

LIGHT SOURCES

Cold Light Fountains XENON



LIGHT SOURCES

Cold Light Fountains XENON

Overview

KARL STORZ — ENDOSKOPE

Cold Light Fountain XENON 100

NEW

Cold Light Fountain XENON NOVA® 175

Cold Light Fountain XENON 175 SCB

SCB®

Cold Light Fountain XENON NOVA® 300

Cold Light Fountain XENON 300 SCB

SCB®

Xenon Cold Light Sources

Xenon technology by KARL STORZ marks the next major development in illumination systems. Xenon cold light sources have two distinct advantages over standard light bulbs: the Xenon lamp produces twice the light output as a modern halogen lamp while consuming 2/3 of the energy. The improved light output provides brighter and wider illumination of the examination site. The natural daylight color temperature of the Xenon light source is accommodating towards the human eye.

In addition to Xenon Cold Light Fountains, KARL STORZ also offer several units at various price ranges to provide optimal customer satisfaction and maximum customer benefits.

The XENON 175 SCB and XENON NOVA® 175 models are operated with a 175 Watt Xenon lamp, providing excellent illumination with a natural color temperature of 6000 Kelvin. A mechanical dimmer provides a continuous manual adjustment of brightness. The lamp current remains unaltered which ensures maximum lamp life.

Models from the XENON 300 SCB and XENON NOVA® 300 series meet all requirements for endoscopic procedures and also provide optimal image and video documentation. With a natural color temperature of 6000 Kelvin and equipped with a 300 Watt Xenon lamp, these models are particularly suitable for the aforementioned documentation.

The XENON NOVA® 300 has a mechanical dimmer to regulate brightness. With the electronic XENON 300 SCB, light is adjusted via a microprocessor-controlled optomechanical dimmer. The unaltered lamp current also ensures maximum lamp life. Light adjustment can be controlled manually via push button or automatically with the video camera's output signal. The standard XENON 175 SCB and XENON 300 SCB models can be operated with the KARL STORZ-SCB system via touch screen or the VOICE1® voice control function.

Cold Light Fountain XENON 100 SCB

with Integrated Insufflation Pump

KARL STORZ — ENDOSKOPE

for use with KARL STORZ video endoscopes

Special Features:

- **Optimal light efficiency**
- **Electronically adjustable light intensity**
- **Powerful ventilation with low noise level**
- **No overheating of environment**
- **Special diaphragm focuses the light onto the field of view**
- **New dielectric heat protection filter improves light efficiency by around 20%**
- **With KARL STORZ Communication Bus (KARL STORZ-SCB)**
- **Problem-free lamp replacement**
- **Integrated insufflation pump**
- **High light intensity**
- **Xenon lamp provides daylight coloration**
- **Display of lamp service life**
- **Insufflation pump with 3 performance levels**
- **100 W Xenon lamp**

NEW **69** 1326 01-1 **Cold Light Fountain XENON 100 SCB**

incl. integrated insufflation pump, power supply 100 – 240 VAC, 50/60 Hz, for use with KARL STORZ video endoscopes

including:

Mains Cord

Accessories:

20 1325 80	**Air Filter,** XENON 100
495 KS	**Adaptor,** for standard KARL STORZ fiber optic light cables (not 495 NCS) to KARL STORZ XENON 100 SCB
20 0300 30	**Adaptor,** for KARL STORZ fiber optic light cables to KARL STORZ XENON 100 SCB, includes LUER-Lock adaptor to integrated insufflation pump

Specifications

Xenon lamp	- capacity: 100 W - lamp life: approx. 500 h - color temperature: approx. 6000 K
Pump	- pressure levels: 3 - max. pressure: 0.51 bar - max. flow rate: 5 l/min.
Operating conditions	- operating temperature: 0 °C – +40 °C - humidity: 30 – 90%

Power supply	- 230 VAC +/-10%, 50/60 Hz - 115 VAC +/-10%, 50/60 Hz
Dimensions w x h x d	305 x 110 x 380 mm
Weight	5.4 kg
Certified to	- IEC 60601-1, 60601-2-18, UL 2601.1, CSA 22.2, No. 601.1-M 90 - Mode of operation: continuous

The system can be operated with KARL STORZ-SCB units.

Spare Lamps and Spare Lamp Modules for Cold Light Fountains XENON see page TP 105

Component Parts see COMPONENTS, SPARE PARTS

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Cold Light Fountain XENON NOVA® 175

Special Features:

- **High light intensity due to 175 W Xenon lamp, thus ideally suitable for applications requiring high illumination levels**
- **Continuous manual adjustment of light intensity**
- **Excellent price/performance ratio**

69 1315 01 **Cold Light Fountain XENON NOVA® 175**

power supply 100 – 125/220 – 240 VAC, 50/60 Hz
including:
Mains Cord

Specifications:

Lamp type	XENON 15 V, 175 Watt
Color temperature	approximately 6000 K
Light outlets	1
Light intensity adjustment	continuous manual adjustment

Dimensions w x h x d	305 x 110 x 260 mm
Weight	4 kg
Certified to	IEC 601-1, CE acc. to MDD, protection class 1/CF

For use with video endoscopes, Adaptor 69487 KVE is required.
Spare Lamps and Spare Lamp Modules for Cold Light Fountains XENON see page TP 105
Component Parts see COMPONENTS, SPARE PARTS

Cold Light Fountain XENON 175 SCB

Special Features:

- **Built-in antifog pump**
- **With integrated KARL STORZ Communication Bus (KARL STORZ-SCB)**

20 1321 01-1 **Cold Light Fountain XENON 175 SCB**

power supply 100 – 125/220 – 240 VAC, 50/60 Hz
including:
Mains Cord
Silicone Tubing Set, length 250 cm
SCB Connecting Cable, length 100 cm

Specifications:

Lamp type	XENON 15 V, 175 Watt
Color temperature	approximately 6000 K
Light outlets	1
Light intensity adjustment	continuously adjustable, either via a membrane keyboard or KARL STORZ Communication Bus Signal

Dimensions w x h x d	305 x 165 x 260 mm
Weight	7.7 kg
Certified to	IEC 601-1 and UL 544, protection class 1/CF

For use with video endoscopes, Adaptor 69487 KVE is required.
Spare Lamps and Spare Lamp Modules for Cold Light Fountains XENON see page TP 105
Component Parts see COMPONENTS, SPARE PARTS

Cold Light Fountain XENON NOVA® 300

Special features:

- **Extremely high light intensity due to 300 Watt Xenon lamp**
- **Continuous manual adjustment of light intensity**
- **Excellent price/performance ratio**

20 1340 01	**Cold Light Fountain XENON NOVA® 300**

power supply 100 – 125/220 – 240 VAC, 50/60 Hz
including:
Mains Cord

Specifications:

Lamp type	XENON 15 V, 300 Watt
Color temperature	approximately 6000 K
Light outlets	1
Light intensity adjustment	continuous manual adjustment

Dimensions w x h x d	305 x 110 x 260 mm
Weight	4.2 kg
Certified to	IEC 601-1, CE acc. to MDD, protection class 1/CF

For use with video endoscopes, Adaptor 69487 KVE is required.
Spare Lamps and Spare Lamp Modules for Cold Light Fountains see page TP 105
Component Parts see COMPONENTS, SPARE PARTS

Cold Light Fountain XENON 300 SCB

Special Features:

- **Extremely high light intensity due to 300 Watt Xenon lamp**
- **Built-in antifog pump**
- **With integrated KARL STORZ Communication Bus (KARL STORZ-SCB)**

20 1331 01-1 **Cold Light Fountain XENON 300 SCB**

power supply 100 – 125/220 – 240 VAC, 50/60 Hz
including:
Mains Cord
Silicone Tubing Set, length 250 cm
SCB Connecting Cable, length 100 cm

Specifications:

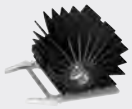
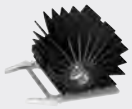
Lamp type	XENON 15 V, 300 Watt
Color temperature	approximately 6000 K
Light outlets	1
Light intensity adjustment	continuously adjustable, either via a membrane keyboard or KARL STORZ Communication Bus Signal

Dimensions w x h x d	305 x 165 x 335 mm
Weight	7.96 kg
Certified to	IEC 601-1 and UL 544, protection class 1/CF

For use with video endoscopes, Adaptor 69487 KVE is required.
Spare Lamps and Spare Lamp Modules for Cold Light Fountains see page TP 105
Component Parts see COMPONENTS, SPARE PARTS

Cold Light Fountains XENON

Spare Lamps and Spare Lamp Modules

			for use with				
			XENON 100 SCB	*XENON NOVA® 175*	*XENON 175 SCB*	*XENON NOVA® 300*	*XENON 300 SCB*
	20 1320 26	**XENON Spare Lamp,** 175 W, 15 V	–	●	●	–	–
	20 1330 28	**XENON Spare Lamp,** 300 W, 15 V	–	–	–	●	●
	20 1325 26	**XENON Spare Lamp,** 100 W, 15 V	●	–	–	–	–
	**20** 1320 25	**XENON Spare Lamp Module,** 175 W, 15 V	–	–	●	–	–
	**20** 1330 27	**XENON Spare Lamp Module,** 300 W, 15 V	–	–	–	–	●

Fiber Optic Light Cables

for Cold Light Fountains

KARL STORZ — ENDOSKOPE

Fiber Optic Light Cable with Straight Connector

	69495 NE	**Fiber Optic Light Cable,** diameter 4.8 mm, length 300 cm
	69495 NCS	**Fiber Optic Light Cable,** extremely heat-resistant, diameter 4.8 mm, length 250 cm
NEW	495 NCSC	**Fiber Optic Light Cable,** extremely heat-resistant, with safety locking device, diameter 4.8 mm, length 250 cm
	69495 NB	**Fiber Optic Light Cable,** diameter 4.8 mm, length 180 cm
	69495 ND	**Fiber Optic Light Cable,** diameter 3.5 mm, length 300 cm
	69495 NA	**Fiber Optic Light Cable,** diameter 3.5 mm, length 230 cm
NEW	495 NAC	**Fiber Optic Light Cable,** with safety locking device, diameter 3.5 mm, length 230 cm
	69495 NL	**Fiber Optic Light Cable,** diameter 3.5 mm, length 180 cm
	69495 NTA	**Fiber Optic Light Cable,** diameter 2.5 mm, length 230 cm
	69495 NT	**Fiber Optic Light Cable,** diameter 2.5 mm, length 180 cm
NEW	495 TIP	**Fiber Optic Light Cable,** highly heat resistant, diameter 4.8 mm, length 300 cm, optimized for 3D TIPCAM®1 and TIPCAM®

Fiber Optic Light Cable with 90° Deflection to the Light Source

	495 NWL	**Fiber Optic Light Cable,** with 90° deflection to the cold light fountain on the fountain side, diameter 3.5 mm, length 300 cm
	495 NWM	**Fiber Optic Light Cable,** with 90° deflection to the cold light fountain on the fountain side, diameter 3.5 mm, length 230 cm
	495 NW	**Fiber Optic Light Cable,** with 90° deflection to the cold light fountain on the fountain side, diameter 3.5 mm, length 180 cm
	495 NTXS	**Fiber Optic Light Cable,** with 90° deflection to the cold light fountain, diameter 2.5 mm, length 230 cm
	495 NTW	**Fiber Optic Light Cable,** with 90° deflection to the cold light fountain on the fountain side, diameter 2.5 mm, length 180 cm

495 NVC 495 NV/NVL/NVB

Fiber Optic Light Cable with 90° Deflection to the Instrument

NEW	495 NVC	**Fiber Optic Light Cable,** with 90° deflection to the instrument, very narrow radius of curvature, diameter 4.8 mm, length 300 cm
	495 NVB	**Fiber Optic Light Cable,** with 90° deflection to the instrument, diameter 4.8 mm, length 300 cm
	495 NVL	**Fiber Optic Light Cable,** with 90° deflection to the instrument, diameter 3.5 mm, length 300 cm
	495 NV	**Fiber Optic Light Cable,** with 90° deflection to the instrument, diameter 3.5 mm, length 230 cm

Light Adaptor, angled 90°

	495 EW	**Light Adaptor,** angled 90°, diameter 4.8 mm, free rotatable, to connect with standard telescopes

Adaptor for connecting KARL STORZ fiber optic light cables with endoscopes and light sources from other manufacturers see pages TP 108-109

LIGHT SOURCES

2-12

Fiber Optic Light Cables

for Cold Light Fountains

495 AD/BD

495 UD

495 DC/DV

Fiber Optic Light Cable with Straight Connector

495 AD	**Fiber Optic Light Cable,** diameter 3.5 mm, length 180 cm, for double incidental light radiation in film and TV and when used as demonstration devices
495 BD	**Fiber Optic Light Cable,** diameter 4.8 mm, length 180 cm, for double incidental light radiation in film and TV and when used as demonstration devices
495 UD	**Fiber Optic Light Cable,** 2x diameter 3.5 mm, length 180 cm, for simultaneous light transmission for 2 instruments
495 DC	**Fiber Optic Light Cable,** diameter 3.5 mm, length 320 cm, for use with DCI® Camera Heads **20** 2620 30, **20** 2621 30, **22** 2600 31-3 and **22** 2601 31-3
495 DV	**Fiber Optic Light Cable,** diameter 2.5 mm, length 320 cm, for use with DCI® Camera Heads **20** 2620 30, **20** 2621 31, **22** 2600 31-3 and **22** 2601 31-3

The given diameter is the diameter of the built-in glass fibers on the instrument side.

Fiber Optic Light Cable with Straight Connector

495 NAS	**Fiber Optic Light Cable,** diameter 3.5 mm, length 230 cm
495 NTAS	**Fiber Optic Light Cable,** diameter 2.5 mm, length 230 cm
495 NWMS	**Fiber Optic Light Cable,** with 90° deflection to the cold light fountain, diameter 3.5 mm, length 230 cm
495 NTXS	**Fiber Optic Light Cable,** with 90° deflection to the cold light fountain, diameter 2.5 mm, length 230 cm

Please note:

The high light concentration at the end of the light cable causes heat to be generated in the focal point. The end of the light cable should never be placed on the patient's drape or skin as long as the cold light fountain is turned on, since the light intensity could cause burns in the patient or set the drape on fire.

Sterilization and Disinfection:

The fiber optic light cables can be sterilized in the autoclave at 273 °F (134 °C). Gas sterilization is recommended and chemical disinfection is possible.

Recommended combination: light cable with endoscope*

Diameter light cable	Diameter endoscope
4.8 – 5.0 mm	6.5 – 12.0 mm
3.0 – 3.5 mm	3.0 – 6.5 mm
2.0 – 2.5 mm	0.8 – 2.9 mm

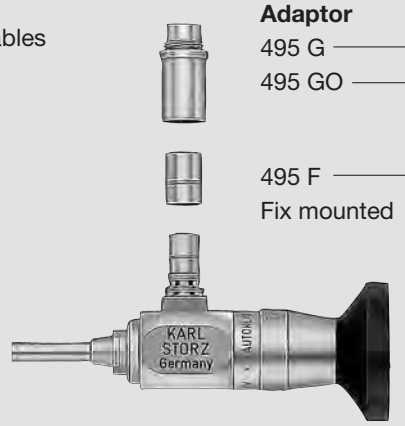
***Special endoscopes may deviate.**

Adaptor for connecting KARL STORZ fiber optic light cables with endoscopes and light sources from other manufacturers see pages TP 108-109

Adaptors

for Light Sources and Light Cables

HOPKINS® Telescopes with universal connector for light cables



Adaptor	Light Cable
495 G	**KARL STORZ**
495 GO	Olympus/Winter & Ibe
	Olympus/Winter & Ibe with attached lens
495 F	Wolf
Fix mounted	ACMI
	Zimmer

Manufacturer	I = Instrument CF = Cold Light Fountain LC = Light Cable	KARL STORZ				
		Light Cable	Cold Light Fountain	Former Instrument	Current Instrument	Special Applications
ACMI	I	495 W	–	–	–	ACMI connector to ACMI connector 495 Y
	CF	495 PA	–	–	–	
	LC	–	495 C	–	–	
Downs	CF	495 PA	–	–	–	
Dyonics	CF	495 Q	–	–	–	
Effner	CF	495 Q	–	–	–	
Fuji	CF	495 FU	–	–	–	
KLI	LC	–	495 C	–	–	
	CF	495 PA	–	–	–	
Machida	CF	495 SM		–	–	
Olympus	CF	495 SON	–	–	–	Olympus Techno Fountain for KARL STORZ Cable 81495 OT, Olympus Light Cable for KARL STORZ Techno Fountain 81450/81495 OL
	LC	–	495 D	–	–	
Pentax	CF	495 T	–	–	–	
	LC	–	495 D	–	–	
HSW	CF	495 Q	–	–	–	
	LC	–	495 E	495 N	495 N	
Stryker	I	495 ST	–	–	–	
	CF	495 PA	–	–	–	
Richard Wolf	I	495 X	–	–	–	
	CF	495 Q	–	–	–	
	LC	–	495 E	495 M	–	
Olympus/ Winter & Ibe	CF	495 S	–	–	–	**495 S:** The use of KARL STORZ fiberscopes with integrated fiber optic light cable and KARL STORZ light cables with non-graduated distal connection (diameter 7 mm) requires an additional adaptor **495 PWS** to adaptor **495 S**
	LC with attached lens	–	–	495 GO	495 GO	

LIGHT SOURCES

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Adaptor Series

for HALOGEN and XENON Light Sources

487 A	**Adaptor,** for KARL STORZ light sources in combination with ACMI light cable
487 M	**Adaptor,** for KARL STORZ light sources in combination with Machida light cable
487 O	**Adaptor,** for KARL STORZ light sources in combination with Olympus light cable
69487 KVE	**Adaptor,** for KARL STORZ light sources (except TELE PACK) in combination with KARL STORZ video endoscopes or Olympus OES flexible endoscopes, with integrated heat filter, includes connector for insufflation
487 P	**Adaptor,** for KARL STORZ light sources in combination with Pilling light cable
487 U	**Adaptor,** for KARL STORZ light sources in combination with KARL STORZ, Wolf, Dyonics, ACMI, Pilling, V. Müller, Stryker light cable
487 UO	**Adaptor,** for KARL STORZ light sources in combination with KARL STORZ, Wolf, Dyonics, ACMI, Olympus, V. Müller, Stryker light cable
487 W	**Adaptor,** for KARL STORZ light sources in combination with Wolf light cable
487 WI	**Adaptor,** for KARL STORZ light sources in combination with Winter-IBE light cable
487 Z	**Adaptor,** for KARL STORZ light sources in combination with Zeiss light cable

Adaptor	*HALOGEN LIGHT SOURCE VETERINARY*	*HALOGEN 250 twin*	*LED NOVA 150*	*LED NOVA 100 twin*	*Power LED 175 SCB*	*XENON 100 SCB*	*XENON NOVA® 175*	*XENON 175 SCB*	*XENON NOVA® 300*	*XENON 300 SCB*	*TELE PACK VET X*
487 A	●	●	–	–	–	–	●	●	●	●	–
487 M	●	●	–	–	–	–	●	●	●	●	–
487 O	●	●	–	–	–	–	●	●	●	●	–
69487 KVE	–	–	–	–	–	–	●	●	●	●	–
487 P	●	●	–	–	–	–	●	●	●	●	–
487 U	●	●	–	–	–	–	●	●	●	●	–
487 UO	●	●	–	–	–	–	●	●	●	●	–
487 W	●	●	–	–	–	–	●	●	●	●	–
487 WI	●	●	–	–	–	–	●	●	●	●	–
487 Z	●	●	–	–	–	–	●	●	●	●	–

LIGHT SOURCES

SMARTCART Equipment Cart Series

SMARTCART 2 – The New Generation of KARL STORZ Equipment Carts

KARL STORZ — ENDOSKOPE

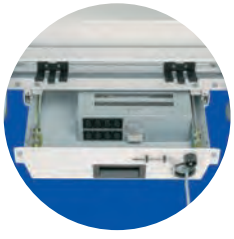
Special Features:

- **Choose from a broad range of sizes and features**
- **The carts can be easily customized to any given requirements with the help of a wide variety of useful accessories – for example, with camera holders, irrigator rod, special storage areas for keyboard or mouse, etc.**
- **Convenient and functional cable management within the double rear wall with integrated electrical sub-distributors through which cables and tubes can be safely passed.**
- **Vertical cable managers ensure tidy cabling right up to the appliance.**
- **Central power supply via the powerbox, which contains all the mains and grounding terminals while offering enough space to hold an isolation transformer.**
- **Smooth, readily accessible, easy-to-clean surfaces**

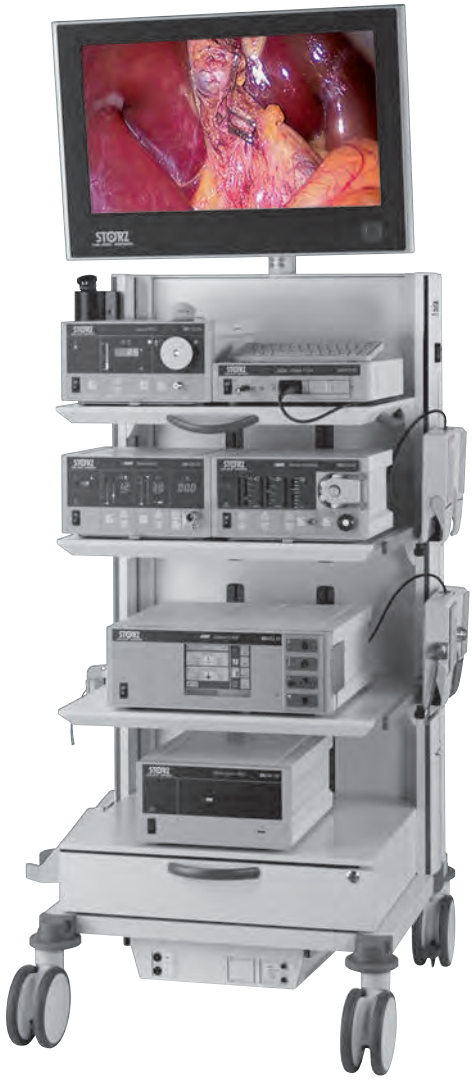
TFT monitor holders with VESA 75/100 adaption

Detailed view with open rear panel

Lateral push handles for easy handling



Optional integrable isolation transformer with grounding terminal for maximum patient safety



EQUIPMENT CARTS

2-12

Equipment Carts NEW

29005 DRB

29005 DRB **Equipment Cart**

including:

basic equipment cart, rides on 4 antistatic dual wheels, 2 equipped with locking brakes (rear), 3 fixed shelves, 1 with push handles, mains switch in side boom, 1 drawer unit with lock, integrated cable conduits in both vertical beams, 1 set of non-sliding stands for units, double rear panel with integrated electrical subdistributors (with 12 sockets), holder for power supplies, potential earth connectors and cable winding on the outside, 1 camera holder, 2 equipment rails sidewise

Dimensions:
Equipment Cart: 730 x 1490 x 716 mm (w x h x d),
Shelf: 630 x 480 mm (w x d),
Caster diameter: 150 mm

Accessories:

29005 MZD **Monitor Holding Arm,** height and side adjustable, swiveling and tilting, central mount, swivel range 360°, reach 300 mm, loading capacity max. 15 kg, with monitor holder VESA 75/100, with integrated cable conduit, for use with Equipment Cart 29005 DRB

29005 SZD **Monitor Swivel Arm,** height and side adjustable, can be mounted on the left or on the right side, swivel range 180°, reach 600 mm, for side boom as of 800 mm, loading capacity max. 14 kg, with monitor holder VESA 75/100, for Equipment Cart 29005 DRB

29005 DRS

29005 DRS **Equipment Cart**

including:

basic equipment cart, rides on 4 antistatic dual wheels, 2 equipped with locking brakes (front), 3 fixed shelves, 1 with push handles, mains switch in side boom, 2 push handles on the side, 1x drawer unit with lock, integrated cable conduits in both side booms, 1x set of non-sliding stands for units, double rear panel with integrated electrical subdistributors with 12 sockets, holder for power supplies, potential earth connectors and cable manager on the outside, 1x camera mount, 2x equipment rails on the side,

Dimensions:
Equipment Cart: 530 x 1455 x 645 mm (w x h x d),
Shelf: 430 x 480 mm (w x d),
Caster diameter: 125 mm

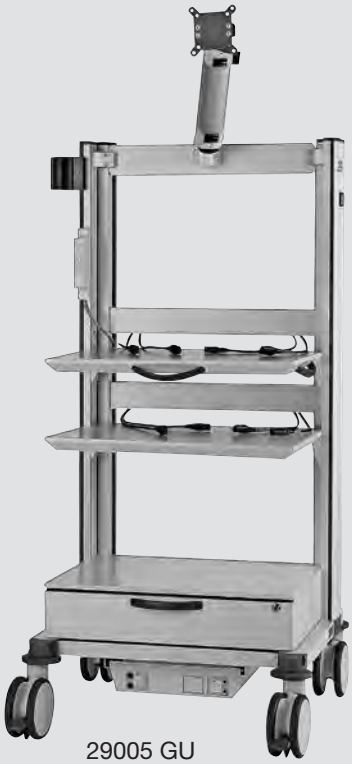
29005 LAP

29005 LAP	**Equipment Cart**

including:

basic equipment cart, rides on 4 antistatic dual wheels, 2 equipped with locking brakes, 3 fixed shelves, 1 with push handles, mains switch in side boom, 1x drawer unit with lock, integrated cable conduit in both booms, 3x horizontal cable conduits, 2 with 4x subdistribution board for cold device sockets, 1 with cable manager, 1x set of non-sliding stands for units, 1x monitor holding arm VESA 75/100, 1x camera mount, 8x mains cords 50 cm, 2x mains cord 200 cm, 2x equipment rails on the side, isolation transformer 230 VAC (50/60 Hz) 2000 VA with 8 plug-in slots, 8 grounding plugs and earth leakage monitor, 1x CO_2 bottle holder, max. diameter 155 mm

Dimensions:
Equipment cart: 730 x 1490 x 716 mm (w x h x d),
Shelf: 630 x 480 mm (w x d),
Caster diameter: 150 mm



29005 GU

29005 GU **Equipment Cart**

including:

basic equipment cart, rides on 4 antistatic dual wheels, 2 equipped with locking brakes, 2 fixed shelves, 1 with push handles, main switch in side boom, 1x drawer unit with lock, integrated cable conduit in both booms, 3x horizontal cable conduits, 2 with 4x subdistribution board for cold device sockets, 1 with cable manager, 1x set of non-sliding stands for units, 1x monitor holding arm VESA 75/100, 1x camera mount, 8x mains cords 50 cm, 2x mains cord 200 cm, isolation transformer 230 VAC (50/60 Hz) 2000 VA with 8 plug-in slots, 8 grounding plugs and earth leakage monitor

Dimensions:

Equipment cart: 730 x 1490 x 716 mm (w x h x d),
Shelf: 630 x 480 mm (w x d),
Caster diameter: 150 mm

29005 BAS **Equipment Cart**

including:

basic equipment cart, rides on 4 antistatic dual wheels, 2 equipped with locking brakes, 2 fixed shelves, 1 with push handles, main switch in side boom, 1x drawer unit with lock, integrated cable conduit in both booms, 3x horizontal cable conduits, 1 with cable manager, 1x set of non-sliding stands for units, 1x monitor holding arm VESA 75/100, 1x camera mount

Dimensions:
Equipment cart: 730 x 1490 x 716 mm (w x h x d),
Shelf: 630 x 480 mm (w x d),
Caster diameter: 150 mm

29005 BKW

29005 BWK **Equipment Cart**

including:

basic equipment cart, rides on 4 antistatic dual wheels, 2 equipped with locking brakes, main switch in side boom, 1x drawer unit with lock, integrated cable conduit in both vertical beams, 2x horizontal cable conduits, one with cable manager, 1x set of non-sliding stands for units

Dimensions:
Equipment cart: 530 x 1090 x 645 mm (w x h x d),
Shelf: 430 x 480 mm (w x d),
Caster diameter: 125 mm

29005 GI

29005 GI **Equipment Cart**

including:

basic equipment cart, rides on 4 antistatic dual wheels, 2 equipped with locking brakes, 2 fixed shelves, 1 with push handles, main switch in side boom, 1x drawer unit with lock, integrated cable conduit in both vertical beams, 2x horizontal cable conduits, 1 with cable manager, 1x set of non-sliding stands for units, 1x pull-out keyboard at the front, 1x video endoscope intake, 1x video endoscope plug intake, 1x tube clip, 1x monitor holder VESA 75/100, 4x equipment rails, 6x mains cords, 3x 200 cm and 3x 100 cm, isolation transformer 230 VAC (50/60 Hz) 1200 VA with 6 plug-in slots and 6 grounding plugs

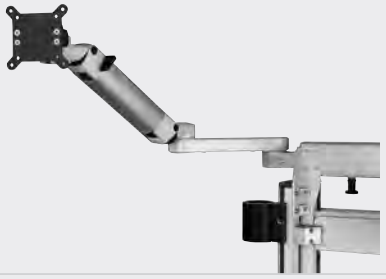
Dimensions:
Equipment cart: 530 x 1200 x 645 mm (w x h x d),
Shelf: 430 x 480 mm (w x d),
Caster diameter: 125 mm

29005 BGI **Equipment Cart**

including:

basic equipment cart, rides on 4 antistatic dual wheels, 2 equipped with locking brakes, 2 fixed shelves, 1 with push handles, main switch in side boom, 1x drawer unit with lock, integrated cable conduit in both vertical beams, 2x horizontal cable conduits, 1 with cable manager, 1x set of non-sliding stands for units

Dimensions:
Equipment cart 530 x 1200 x 645 mm (w x h x d),
Shelf: 430 x 480 mm (w x d),
Caster diameter: 125 mm



29005 SZ — **Monitor Swivel Arm,** height and side adjustable, can be mounted on the left or on the right side, swivel range 180°, reach 600 mm, for side boom as of 800 mm, loading capacity max. 14 kg, with monitor holder VESA 75/100, for Equipment Cart 29005 LAP/GU/BAS

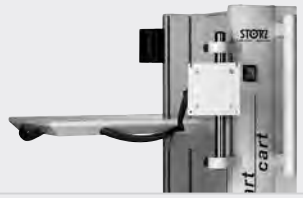
29005 MZ — **Monitor Holding Arm,** height and side adjustable, swiveling and tilting, central mount, swivel range 190°, reach 300 mm, loading capacity max. 15 kg, with monitor holder VESA 75/100, for Equipment Cart 29005 LAP/GU/BAS

29005 MSK — **Monitor Holding Arm,** height and side adjustable, tilting, can be mounted either on the left or on the right side, swivel range 190°, reach 300 mm, loading capacity max. 15 kg, with monitor holder VESA 75/100, for Equipment Carts 29005 xx

29005 MSL — **Same,** reach 600 mm, loading capacity max. 14 kg, for equipment carts 29005 LAP/GU/BAS/DRB

29005 MH — **Monitor Arm,** height adjustable, swiveling and tilting, central mount, swivel range approx. 210°, loading capacity max. 18 kg, with monitor holder VESA 75/100, for Equipment Carts 29005 HNO/GI/AN/BGI/BWK/DRS

29005 MHB — **Same,** for Equipment Cart 29005 BAS/DRB and 29003 LCG



29005 MHS — **Monitor Holder,** lateral, with VESA 75/100 monitor holder, including monitor module and multifunctional holder, for use with Equipment Carts 29005 xx

29003 GK — **Accessory Side Shelf,** for mounting on side boom, with 2 arms, load capacity 10 kg, floor space: 310 x 310 mm (w x d)

29003 GS **Standard Equipment Rail,** for mounting on side with equipment carts of series 29003 and 29005

29003 KK **Cable Conduit Horizontal,** width 630 mm, for Equipment Cart 29005 LAP/GU/BAS

29005 PB **Power Box,** socket board with 12 mains sockets, 12 grounding plugs, for Equipment Cart 29005 BAS

29003 PBK **Power Box,** socket board with 6 mains sockets, 6 grounding plugs for Equipment Carts 29005 HNO/AN/BGI/BWK

29005 TBG **Isolation Transformer,** 230 VAC, 2000 VA, with 8 special mains socket expulsion fuses, 8 grounding plugs, for Equipment Carts 29005 BAS/DRB/LAP/GU

29003 TBK **Isolation Transformer,** 230 VAC, 1200 VA, 6 special mains socket expulsion fuses, 6 grounding plugs, for Equipment Cart 29005 DRS/BGI/BWK/GI/HNO/AN

29003 IW **Earth Leakage Monitor,** for use with Isolation Transformer 29003 TBK and 29005 TBG

400 D	**Mains Cord,** mains connector 90° angulated, unit connector straight, length 400 cm
400 DM	**Same,** length 250 cm

29005 KKK	**Mains Cord,** length 50 cm, with cold device plug and socket, with UL approval
29005 KKM	**Same,** length 100 cm
29005 KKL	**Same,** length 200 cm

28003 TE	**Mains Cord Adaptor,** for devices with European plugs, for use with Isolation Transformer 29003 TBG/TBK/TBR and 29005 TBG

28003 TO	**Mains Cord Adaptor,** for devices with fixed mains cord with shockproof plug, for use with Isolation Transformer 29003 TBG/TBK/TBR and 29005 TBG

29005 KSK	**Mains Cord Adaptor,** for devices with cold device sockets to power box with shockproof socket

20 0101 70	**Potential Equipotential Cable,** length 10 m
20 0102 70	**Potential Equalization Cable,** length 500 cm
20 0103 70	**Potential Equalization Cable,** length 200 cm
20 0105 70	**Potential Equipotential Cable,** length 150 cm
20 0106 70	**Potential Equipotential Cable,** length 100 cm

29005 PA-HNO	**Potential Equalization Cabling,** for configuring equipment carts, including Potential Equipotential Cables 2x **20** 0105 70, 1x **20** 0106 70 and 1x **20** 0102 70 for 3 units
29005 PA-GI	**Potential Equalization Cabling,** for configuring equipment carts, including Potential Equipotential Cables 3x **20** 0105 70, 1x **20** 0106 70 and 1x **20** 0102 70 for 4 units
29005 PA-AN	**Potential Equalization Cabling,** for configuring equipment carts, including Potential Equipotential Cables 1x **20** 0103 70 and 1x **20** 0102 70 for 1 unit
29005 PA-LAP	**Potential Equalization Cabling,** for configuring equipment carts, including Potential Equipotential Cables 5x **20** 0103 70, 2x **20** 0105 70 and 1x **20** 0102 70 for 7 units
29005 PA-GU	**Potential Equalization Cabling,** for configuring equipment carts, including Potential Equipotential Cables 4x **20** 0103 70, 1x **20** 0105 70 and 1x **20** 0102 70 for 5 units

29005 BK **Shelf,** load capacity max. 50 kg, dimensions: 430 x 480 mm (w x d), for Equipment Cart HNO/AN/GI/BWK/BGI/DRS

29005 BG **Shelf,** load capacity max. 50 kg, dimensions: 630 x 480 mm (w x d), for Equipment Cart 29005 LAP/GU/BAS/DRB

29005 TAK **Keyboard Tray,** for mounting under Shelf 29005 BK, load capacity 10 kg, dimensions: 430 x 480 mm (w x d)

29005 TAG **Keyboard Tray,** for mounting under Shelf 29005 BG, load capacity 10 kg, dimensions: 630 x 480 mm (w x d)

29005 BGG **Shelf with Handles,** load capacity max. 50 kg, dimensions: 630 x 480 mm (w x d), for Equipment Cart 29005 LAP/GU/BAS/DRB

29005 BGK **Shelf with Handles,** load capacity max. 50 kg, dimensions: 430 x 480 mm (w x d), for Equipment Cart 29005 HNO/AN/BWK/GI/BGI/DRS

29005 SKS **Drawer Unit with Lock,** load capacity max. 50 kg, with cable slot, dimensions: 430 x 125 x 480 mm (w x h x d), for Equipment Cart 29005 HNO/AN/BWK/GI/BGI/DRS

29005 SG **Drawer Unit with Lock,** load capacity max. 50 kg, with cable slot, dimensions: 630 x 125 x 480 mm (w x h x d), for Equipment Cart 29005 LAP/GU/BAS/DRB

29005 SKO **Drawer Unit with Lock,** load capacity max. 50 kg, dimensions: 430 x 125 x 480 mm (w x h x d), for Equipment Cart 29005 HNO/AN/BWK/GI/BGI/DRS

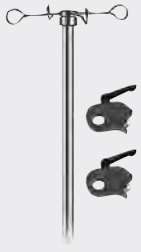
29005 KW **Cable Manager,** for camera cables, can be installed in T-grooves of leg columns, package of 2

29003 EW **Holder for Single-Use Container,** for mounting to Irrigator Rod 29003 S/SV

Equipment Carts

Accessories

KARL STORZ — ENDOSKOPE

	29005 KH	**Camera Holder,** adjustable height, can be installed in T-grooves of leg columns, suitable for all KARL STORZ endoscopy cameras
	29005 KHN	**Camera Mount,** for mounting to Standard Equipment Rail 29003 GS, suitable for all KARL STORZ endoscopy cameras
	29003 FH 29003 FHG	**Bottle Holder,** for CO_2 bottles with bottom diameter of max. 155 mm **Bottle Holder,** for CO_2 bottles with bottom diameter of max. 200 mm
	69003 FT	**Carrier Set,** for flexible endoscopes for mounting at equipment rail, including holding device for 2 endoscopes, 2 acrylic tubes and 2 equipment rails
	29003 FL	**Holder,** for fitting the Bottle Stand Holder **20** 3000 33
	69003 HH	**Otoscope Camera Head Holder,** for combining Otoscope 67260 AA with **non-autoclavable** TELECAM camera head and Veterinary Video Camera III camera head
	29003 S 29003 SV	**Irrigator Rod,** with 4 bottle hooks, for mounting to equipment cart series 29005, incl. two multifunctional holders, length 130 cm **Irrigator Rod with Holder,** height adjustable, with 4 bottle hooks, for mounting to equipment cart series 29005, incl. two multifunctional holders, length 120 – 200 cm
	29003 MH	**Multifunction Holder,** can be installed in T-grooves of upright columns, for integrating accessories and centering pins

EQUIPMENT CARTS

2-12

29005 SK **Tube Clip,** for attaching suction and irrigation tubes to Keyboard Shelf 29005 TAK/TAG

29005 SKN **Tube Clip,** to attach to suction and irrigation tubes, for mounting to Equipment Rail 29003 GS

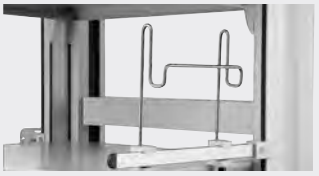
13991 ET **Video Endoscope Holder,** for mounting to 2 Equipment Rails 29003 GS
including:
Video Endoscope Holder
Drip Container, with clamp for fixation to the holding rod

13991 DET **Video Endoscope Holder,** for mounting on 2 Equipment Rails 29003 GS
including:
Double Video Endoscope Holder
2 Drip Containers, each equipped with clamp for fixation to the holding rod

29005 AVS **Video Endoscope Plug Intake,** for mounting to Irrigator Rod 29003 S/SV and Video Endoscope Holder 13991 ET and 13991 DET

29005 PH **Pump Holder,** for attaching suction pump UNIMAT® 30 **25** 3200 01 to equipment cart, for mounting to 2 Equipment Rails 29003 GS

29005 HFS **Holder for Two-Pedal Footswitch,** for mounting to equipment cart side boom model 29005 xx, for use with Footswitch **20** 0103 30, **20** 0104 30, **20** 0114 30, **20** 0124 30, **20** 0126 30, **20** 0128 31 and **20** 0133 30



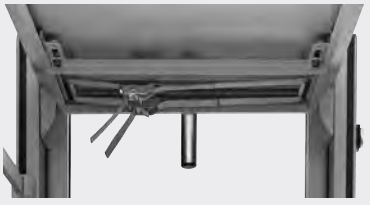
29005 HFH **Holder for Two-Pedal Footswitch,** suspended, for mounting to equipment rails, for use with Footswitch **20** 0138 30 and **20** 0138 31

29005 HFE **Single Pedal Holder,** suspended, for mounting to equipment rails, for use with One-Pedal Footswitch **20** 0138 32

29005 DFH **Holder for Two-Pedal Footswitch,** for mounting to equipment rail, for use with Footswitch **20** 0143 30, **20** 0144 30, **20** 0154 30, **20** 0164 30, **20** 0166 30, **20** 0168 31, **20** 0178 30 and **20** 0178 31

29005 EFH **Single Pedal Holder,** for mounting to equipment rail, for use with Footswitch **20** 0141 30, **20** 0142 30 and **20** 0178 32

29005 AK **Wire Basket,** for accessories, for mounting to equipment rail, dimensions: 300 x 100 x 200 mm (w x h x d)



29005 NBB **Fixation for Power Supply,** double, for mounting 2 power supplies, for attachment to Shelf 29005 BG/BGG

29005 NBS **Fixation for Power Supply,** double, for mounting 2 power supplies, for attachment to Shelf 29005 BK/BGK

29005 SU **Equipment Cart Protective Cover,** with 2 zippers at the front, dimensions: 740 x 1450 x 730 mm (w x h x d), for use with Equipment Carts 29003 LCG and 29005 LAP/GU/BAS/DRB

Equipment Cart

29003 LC

29003 LC **Equipment Cart**

Dimensions:
Equipment cart: 730 x 1450 x 660 mm (w x h x d),
Shelf: 630 x 480 mm (w x d),
Caster diameter: 125 mm

including:

Equipment Cart, rides on 4 antistatic dual wheels, 2 equipped with locking brakes (front), 2 fixed shelves, 1 drawer unit with lock, integrated cable conduits in both vertical beams, mains switch in vertical beam, 1 set of non-sliding stands, 1 camera holder

Power Box, socket board with 12 sockets and 12 potential earth connectors

Accessories:

29003 FH **Bottle Holder,** for CO_2 bottles with bottom diameter of max. 155 mm

29003 FT **Fiberscope Carrier Set,** for mounting to equipment rail, including holding device for 2 fiberscopes, 2 acrylic tubes and 2 Equipment Rails 29003 GS

29003 S **Irrigator Rod,** with 4 bottle hooks, for mounting to equipment cart series 29005, incl. two multifunctional holders, length 130 cm

20 0200 23

20 0200 23 **Mobile Stand**

height adjustable, rides on 5 antistatic casters, 2 equipped with locking brakes, tray made of plastic-coated V2A, for use with cold light fountains, laparoflators, pump and motor systems

Dimensions:
Tray: 330 x 330 mm (w x d),
Working height: 900 – 1500 mm

Accessories:

20 0200 31 **Tray,** made of V2A, plastic-coated, for use with Mobile Stand **20** 0200 23, dimensions: 260 x 170 x 55 mm (w x h x d)

20 0200 32 **Holder for Irrigation Liquid Bottle,** with 4 hooks for bottles, for use with Mobile Stand **20** 0200 23

Equipment Carts E Series NEW

20 0200 81

20 0200 81 **TROLL-E Mobile Stand**

rides on 4 antistatic dual wheels, 2 equipped with locking brakes, for mounting TFT monitors with VESA 75/100 connection, integrated cable conduit in vertical beam, 1 shelf, cable manager, load capacity for monitor: max. 15 kg

Dimensions:
Mobile stand: 670 x 1660 x 670 mm (w x h x d),
Shelf: 455 x 350 mm (w x d), caster diameter: 100 mm

Note: Trolley is delivered unassembled.

20 0200 80

20 0200 80 **SHORT-E HF Cart**

rides on 4 antistatic dual wheels, 2 equipped with locking brakes, integrated cable conduit in vertical beam, 1 HF shelf for AUTOCON® II 400 SCB, with hook for storing cables, cable manager, max. load capacity 51 kg,

Dimensions:
HF cart: 670 x 1020 x 670 mm (w x h x d),
HF shelf: 455 x 375 mm (w x d), caster diameter: 100 mm

Note: Trolley is delivered unassembled.

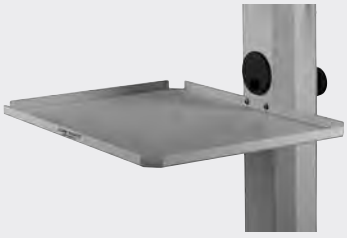
20 0200 82

20 0200 82 **Wall Mount MOUNT-E™**

for mounting monitors with VESA 75/100 connection, integrated cable conduit in vertical beam, max. load capacity 20 kg,

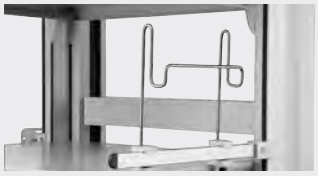
Dimensions: 140 x 750 x 260 mm (w x h x d)

20 0200 46 **Keyboard Shelf,** max. capacity 5 kg, for Mobile Stand **20** 0200 81 and Wall Mount **20** 0200 82, dimensions: 465 x 185 mm (w x d)



20 0200 47 **Shelf,** incl. installation accessories, max. capacity 12 kg, dimensions: 455 x 350 mm (w x d), for use with subracks for Mobile Stands **20** 020060 and **20** 020061

20 0200 49 **Equipment Rail,** for mounting to central boom on HF Cart **20** 0200 80 and Mobile Stand **20** 0200 81, incl. installation accessories dimensions: 350 x 25 x 10 mm (w x h x d)

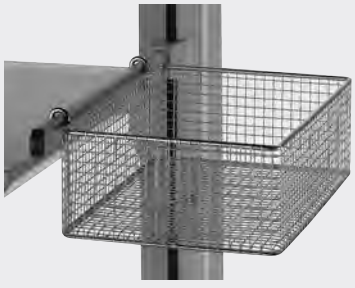


29005 HFH **Holder for Two-Pedal Footswitch,** suspended, for mounting to equipment rails, for use with Footswitch **20** 0138 30 and **20** 0138 31

29005 HFE **Single Pedal Holder,** suspended, for mounting to equipment rails, for use with One-Pedal Footswitch **20** 0138 32

29005 DFH **Holder for Two-Pedal Footswitch,** for mounting to equipment rail, for use with Footswitch **20** 0143 30, **20** 0144 30, **20** 0154 30, **20** 0164 30, **20** 0166 30, **20** 0168 31, **20** 0178 30 and **20** 0178 31

29005 EFH **Single Pedal Holder,** for mounting to equipment rail, for use with Footswitch **20** 0141 30, **20** 0142 30 and **20** 0178 32



29005 AK **Wire Basket,** for accessories, for mounting to equipment rail, dimensions: 300 x 100 x 200 mm (w x h x d)

EQUIPMENT CARTS

Components
Spare Parts

KARL STORZ — ENDOSKOPE

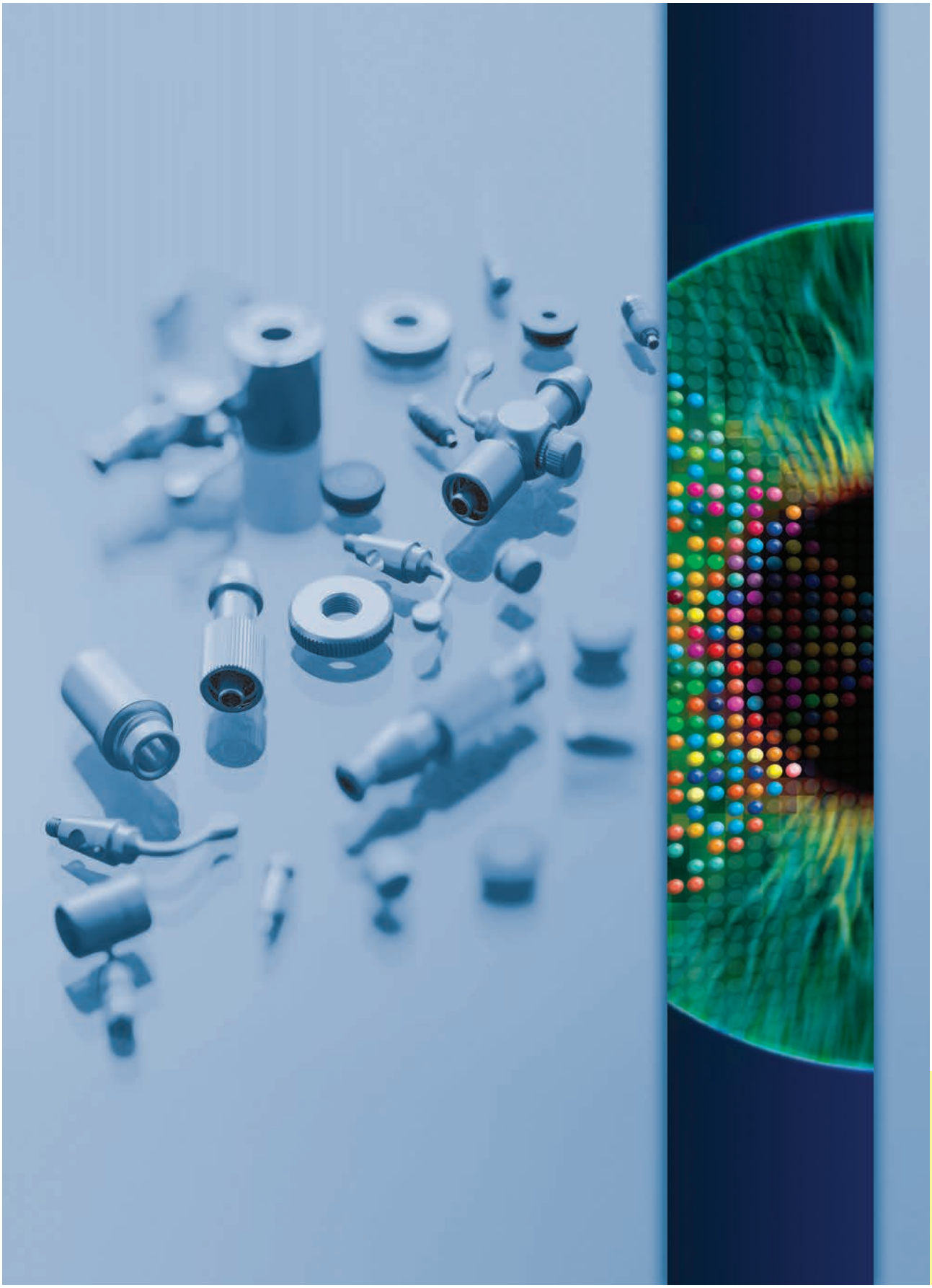


IMAGE 1 HUB™ HD
Camera Control Units SCB

Components / Spare Parts		Catalog page
22201011U110	**IMAGE 1 HUB™ HD Camera Control Unit SCB, with ICM module**	TP 10
22201020-110	**IMAGE 1 HUB™ HD Camera Control Unit SCB, with ICM module**	
400 A	**Mains Cord**	
536 MK	**BNC/BNC Video Cable**	
547 S	**S-Video (Y/C) Connecting Cable**	
20203270	**Special RGBS Connecting Cable**	
20221070	**Connecting Cable,** for controlling peripheral units	
20040089	**DVI-D Connecting Cable**	
20090170	**SCB Connecting Cable**	
20200231U	**Keyboard,** with US English character set	
20040281	**KARL STORZ USB Flash Drive,** 4 GB	

Components / Spare Parts		Catalog page
22201011U112	**IMAGE 1 HUB™ HD Camera Control Unit SCB, with SDI/ICM module**	TP 10
22201020-112	**IMAGE 1 HUB™ HD Camera Control Unit SCB, with SDI/ICM module**	
400 A	**Mains Cord**	
536 MK	**BNC/BNC Video Cable**	
547 S	**S-Video (Y/C) Connecting Cable**	
20203270	**Special RGBS Connecting Cable**	
20221070	**Connecting Cable,** for controlling peripheral units	
20040089	**DVI-D Connecting Cable**	
20090170	**SCB Connecting Cable**	
20200231U	**Keyboard,** with US English character set	
20040281	**KARL STORZ USB Flash Drive,** 4 GB	

Components / Spare Parts		Catalog page
22201011U1	**IMAGE 1 HUB™ HD Camera Control Unit SCB**	TP 11
22201020-1	**IMAGE 1 HUB™ HD Camera Control Unit SCB**	
400 A	**Mains Cord**	
536 MK	**BNC/BNC Video Cable**	
547 S	**S-Video (Y/C) Connecting Cable**	
20203270	**Special RGBS Connecting Cable**	
20221070	**Connecting Cable,** for controlling peripheral units	
200400 89	**DVI-D Connecting Cable**	
20090170	**SCB Connecting Cable**	
20200231U	**Keyboard,** with US English character set	

IMAGE 1 HUB™ HD, IMAGE1 HD, 3D Camera Control Units SCB

KARL STORZ — ENDOSKOPE

Components / Spare Parts		Catalog page
22201011U102	**IMAGE 1 HUB™ HD Camera Control Unit SCB, with SDI module**	TP 11
22201020-102	**IMAGE 1 HUB™ HD Camera Control Unit SCB, with SDI module**	
400 A	**Mains Cord**	
536 MK	**BNC/BNC Video Cable**	
547 S	**S-Video (Y/C) Connecting Cable**	
20203270	**Special RGBS Connecting Cable**	
20221070	**Connecting Cable,** for controlling peripheral units	
20040089	**DVI-D Connecting Cable**	
20090170	**SCB Connecting Cable**	
20200231U	**Keyboard,** with US English character set	

Components / Spare Parts		Catalog page
22202011U110	**IMAGE1 HD Camera Control Unit SCB, with ICM module**	TP 13
22202020-110	**IMAGE1 HD Camera Control Unit, with ICM module**	
400 A	**Mains Cord**	
20221070	**Connecting Cable,** for controlling peripheral units	
20040089	**DVI-D Connecting Cable**	
20090170	**SCB Connecting Cable**	
20200231U	**Keyboard,** with US English character set	
20040281	**KARL STORZ USB Flash Drive,** 4 GB	

Components / Spare Parts		Catalog page
22202011U1	**IMAGE1 HD Camera Control Unit SCB**	TP 13
22202020-1	**IMAGE1 HD Camera Control Unit SCB**	
400 A	**Mains Cord**	
20090170	**SCB Connecting Cable**	
20040089	**DVI-D Connecting Cable**	
20221070	**Connecting Cable,** for controlling peripheral units	
20200231U	**Keyboard,** with US English character set	

Components / Spare Parts		Catalog page
22204011U114	**3D Camera Control Unit SCB, with ICM Module**	TP 23
22204020	**3D Camera Control Unit SCB, with ICM module**	
400 A	**Mains Cord**	
536 MK	**BNC/BNC Video Cable**	
547 S	**S-Video (Y/C) Connecting Cable**	
20221070	**Connecting Cable,** for controlling peripheral units	
20040089	**DVI-D Connecting Cable**	
20090170	**SCB Connecting Cable**	
20040245US	**Silicone Keyboard,** with US English character set	
20040281	**KARL STORZ USB Flash Drive,** 4 GB	
9800 G	**KARL STORZ 3D Glasses**	

TRICAM® SL II SCB, TELE PACK VET X, TELECAM SL II, Veterinary Video Camera III

KARL STORZ — ENDOSKOPE

Components / Spare Parts		Catalog page
20223011U1	**TRICAM® SL II Camera Control Unit SCB**	TP 29
20223020-1	**TRICAM® SL II Camera Control Unit SCB**	
400 A	**Mains Cord**	
20200231U	**Keyboard,** with US English character set	
20221070	**Connecting Cable,** for controlling peripheral units	
536 MK	**BNC/BNC Video Cable**	
547 S	**S-Video (Y/C) Connecting Cable**	
20203270	**Special RGBS Connecting Cable**	
20090170	**SCB Connecting Cable**	
20040082	**DV Connecting Cable,** 6 pin to 4 pin	

Components / Spare Parts		Catalog page
69045001	**TELE PACK VET X**	TP 35
69045020	**TELE PACK VET X**	
20040280	**KARL STORZ USB Flash Drive,** 4 GB	
400 F	**Mains Cord**	
400 FUS	**Mains Cord,** US plug	
9104250	**Case**	
69045002	**Same,** without **Case**	

Components / Spare Parts		Catalog page
20213011U	**TELECAM SL II Camera Control Unit**	TP 39
20213020	**TELECAM SL II Camera Control Unit**	
400 A	**Mains Cord**	
20221070	**Connecting Cable,** for controlling peripheral units	
536 MK	**BNC/BNC Video Cable**	
547 S	**S-Video (Y/C) Connecting Cable**	
20040082	**DV Connecting Cable,** 6 pin to 4 pin	
20200231U	**Keyboard,** with US English character set	

Components / Spare Parts		Catalog page
69236001	**Veterinary Video Camera III, PAL**	TP 40
69236020	**Veterinary Video Camera III Camera Control Unit,** color systems **PAL/NTSC**	
400 A	**Mains Cord**	
20221070	**Connecting Cable,** for controlling peripheral units	
536 MK	**BNC/BNC Video Cable**	
547 S	**S-Video (Y/C) Connecting Cable**	
20200043	**C-MOUNT Lens,** f = 38 mm, soakable	
69215034	**VET C-MOUNT Camera Head, PAL**	
69236101	**Same, NTSC**	
69215134	**VET C-MOUNT Camera Head, NTSC**	

COMPONENTS SPARE PARTS

2-12

Veterinary Video Camera III, C-HUB™, C-MAC® Video Laryngoscope

KARL STORZ — ENDOSKOPE

Components / Spare Parts		Catalog page
69236011	**Veterinary Video Camera III Camera Control Unit**	TP 41
69236020	**Veterinary Video Camera III Camera Control Unit**	
400 A	**Mains Cord**	
20221070	**Connecting Cable,** for controlling peripheral units	
536 MK	**BNC/BNC Video Cable**	
547 S	**S-Video (Y/C) Connecting Cable**	

Components / Spare Parts		Catalog page
20290101	**C-HUB™ Camera Control Unit**	TP 54
20290120-PS	**C-HUB™ Power Supply**	
547 S	**S-Video (Y/C) Connecting Cable**	
20200073	**USB Connecting Cable**	

Components / Spare Parts		Catalog page
8402 ZX	**Monitor for CMOS endoscopes**	TP 55

Spare Parts

40150031
Power Supply, for charging and starting up C-MAC® 8401 ZX and 8402 ZX, with 4 adaptors for Europe, Great Britain, USA/Japan and Australia, power supply 100 – 240 VAC, 50/60 Hz

ET38-1717618
Plug Adaptor UK Standard, to mains adaptor for C-MAC® video laryngoscope

ET38-1717707
Europlug Adaptor, to mains adaptor for C-MAC® video laryngoscope

ET38-1717715
Plug Adaptor USA/Japan, to mains adaptor for C-MAC® video laryngoscope

ET38-1800496
Plug Adaptor Australia, to mains adaptor for C-MAC® video laryngoscope

COMPONENTS SPARE PARTS

2-12

AIDA compact NEO advanced/standard, 19" and 26" HD Monitors

KARL STORZ — ENDOSKOPE

Components / Spare Parts		Catalog page
20040913-EN/20040912-EN	**KARL STORZ AIDA® compact NEO advanced/standard**	TP 61
20046120-A	**KARL STORZ AIDA® control NEO,** with integrated DVD/CD writer, Blu-ray reading possible	
20040577-V02	**AIDA compact HD Frame Grabber Card**	
20090234U	**PS/2 Compact Keyboard,** US version, with cover	
20040402-20	**KARL STORZ AIDA® compact NEO Software,** with voice control and software protection	
20040275	**KARL STORZ USB Flash Drive**	
20221070	**Connecting Cable,** for controlling peripheral units	
536 MK	**BNC/BNC Video Cable**	
536 MKD	**BNC Connecting Cable**	
20040086	**DVI-D Connecting Cable**	
400 A	**Mains Cord**	
20040087	**Connecting Cable,** Mini-DIN plug to BNC socket	

Components / Spare Parts		Catalog page
9619 NB	**19" HD Monitor**	TP 71
9626 PS	**Monitor Power Supply**	
20040089	**DVI-D Connecting Cable**	
536 MK	**BNC/BNC Video Cable**	

Components / Spare Parts		Catalog page
9626 NB	**26" HD Monitor**	TP 71
9626 NG	**Monitor**	
9626 PS	**Monitor Power Supply**	
20040089	**DVI-D Connecting Cable**	
536 MK	**BNC/BNC Video Cable**	

Components / Spare Parts		Catalog page
9626 NB-2	**26" HD Monitor**	TP 71
9626 NG	**Monitor**	
9626 P	**Monitor Power Supply**	
20040089	**DVI-D Connecting Cable**	
536 MK	**BNC/BNC Video Cable**	

19" TFT Flat Screens, 15" and 19" Touch Screens

KARL STORZ — ENDOSKOPE

Components / Spare Parts		Catalog page
W29519 NB	**19" KARL STORZ TFT Flat Screen**	TP 64
9519 NG	**19" TFT Flat Screen**	
9419 PS	**Power Supply**	
400 A	**Mains Cord**	
536 MK	**BNC/BNC Video Cable**	
547 S	**S-Video (Y/C) Connecting Cable**	
20040089	**DVI-D Connecting Cable**	
20040372	**SVGA Monitor Cable**	

Components / Spare Parts		Catalog page
20090401	**15" KARL STORZ Touch Screen**	TP 66, 77
20090331	**15" Touch Screen,** including mains adaptor, CD driver	
20090386	**Touch Pen**	
20090483	**Adaptor,** VESA 75	

Components / Spare Parts		Catalog page
20090403	**15" KARL STORZ Touch Screen**	TP 66, 77
20090331	**15" Touch Screen,** including mains adaptor, CD driver	
20090386	**Touch Pen**	
20090486	**Pedestal**	

Components / Spare Parts		Catalog page
20090405	**19" KARL STORZ Touch Screen**	TP 66, 77
20090437	**19" Touch Screen,** including mains adaptor, CD driver	
20090386	**Touch Pen**	

Components / Spare Parts		Catalog page
20090406	**19" KARL STORZ Touch Screen**	TP 66, 77
20090437	**19" Touch Screen,** including mains adaptor, CD driver	
20090386	**Touch Pen**	
20090487	**Pedestal**	

15" and 19" HD Monitors, 24" and 26" HD WIDEVIEW Monitors

KARL STORZ — ENDOSKOPE

Components / Spare Parts		Catalog page
9515 NB	**15" Monitor**	TP 75
9415 NG	**15" Monitor**	
9526 PS	**Power Supply,** flat screens	
20040089	**DVI-D Connecting Cable**	
547 S	**S-Video (Y/C) Connecting Cable**	

Components / Spare Parts		Catalog page
9519 NB	**19" HD Monitor**	TP 75
9419 NG	**19" HD Monitor**	
9419 PS	**Power Supply**	
400 A	**Mains Cord**	
20040089	**DVI-D Connecting Cable**	
536 MK	**BNC/BNC Video Cable**	

Components / Spare Parts		Catalog page
9524 NB	**24" HD WIDEVIEW Monitor**	TP 75
9524 NG	**24" HD WIDEVIEW Monitor**	
9526 PS	**Power Supply**	
400 A	**Mains Cord**	
20040089	**DVI-D Connecting Cable**	
536 MK	**BNC/BNC Video Cable**	

Components / Spare Parts		Catalog page
9526 NBL	**26" HD Monitor with LED Backlight**	TP 75
9526 NGL	**26" HD Monitor**	
9526 PS	**Power Supply**	
400 A	**Mains Cord**	
20040089	**DVI-D Connecting Cable**	
536 MK	**BNC/BNC Video Cable**	

Components / Spare Parts		Catalog page
9726 NB	**26" HD Monitor (Highbright with LED Backlight)**	TP 75
9726 NG	**26" HD Monitor**	
9526 PS	**Power Supply**	
400 A	**Mains Cord**	
20040089	**DVI-D Connecting Cable**	
536 MK	**BNC/BNC Video Cable**	

ZeroWire Video Tansmission Set, Cold Light Fountains VETERINARY and HALOGEN

KARL STORZ — ENDOSKOPE

Components / Spare Parts		Catalog page
9500 ZW	**ZeroWire Video Transmission Set**	TP 79
9500 TXG	**Transmitter**	
9500 RXG	**Receiver**	
9500 ZW-6	**Radiance Y-Cable 19"/26"**	
9500 ZW-7	**VESA Holder 24"/26"**	
9500 ZW-8	**VESA Holder 19"/23"**	
9500 ZW-2	**DVI-D Cable,** for CCU-Tx and Monitor-Rx connection	
96206173E	**Instruction Manual**	

9500 TXG/RXG

9500 ZW-6

9500 ZW-7/ZW-8

9500 ZW-2

Components / Spare Parts		Catalog page
69111001	**Cold Light Fountain VETERINARY**	TP 87
69111020	**Cold Light Fountain VETERINARY,** power supply 230 VAC, 50/60 Hz	
400 A	**Mains Cord**	
69111001 C	**Same,** power supply 115 VAC, 50/60 Hz	

Components / Spare Parts		Catalog page
20113301	**Cold Light Fountain HALOGEN 250 twin**	TP 88
20113320	**Cold Light Fountain HALOGEN 250 twin,** power supply 100/120/230/240 VAC, 50/60 Hz	
400 A	**Mains Cord**	

COMPONENTS SPARE PARTS

Cold Light Fountains LED

Components / Spare Parts		Catalog page
20161201	**Cold Light Fountain LED NOVA 150**	TP 93
20161220	**Cold Light Fountain LED NOVA 150,** power supply 100 – 240 VAC, 50/60 Hz	
400 A	**Mains Cord**	

Components / Spare Parts		Catalog page
20161101	**Cold Light Fountain LED NOVA 100 twin**	TP 94
20161120	**Cold Light Fountain LED NOVA 100 twin,** with two LED lamps and two light outlets, power supply 110 – 240 VAC, 50/60 Hz	
400 A	**Mains Cord**	

Components / Spare Parts		Catalog page
20161401-1	**Cold Light Fountain Power LED 175 SCB**	TP 95
20161420	**Cold Light Fountain Power LED 175,** power supply 110 – 240 VAC, 50/60 Hz	
400 A	**Mains Cord**	
20090170	**SCB Connecting Cable,** length 100 cm	

Cold Light Fountains XENON

KARL STORZ — ENDOSKOPE

Components / Spare Parts		Catalog page
69132601-1	**Cold Light Fountain XENON 100 SCB**	TP 100
20132620-1	**Cold Light Fountain XENON 100 SCB,** incl. integrated insufflation pump, power supply 100 – 240 VAC, 50/60 Hz, for use with KARL STORZ video endoscopes	
400 A	**Mains Cord**	

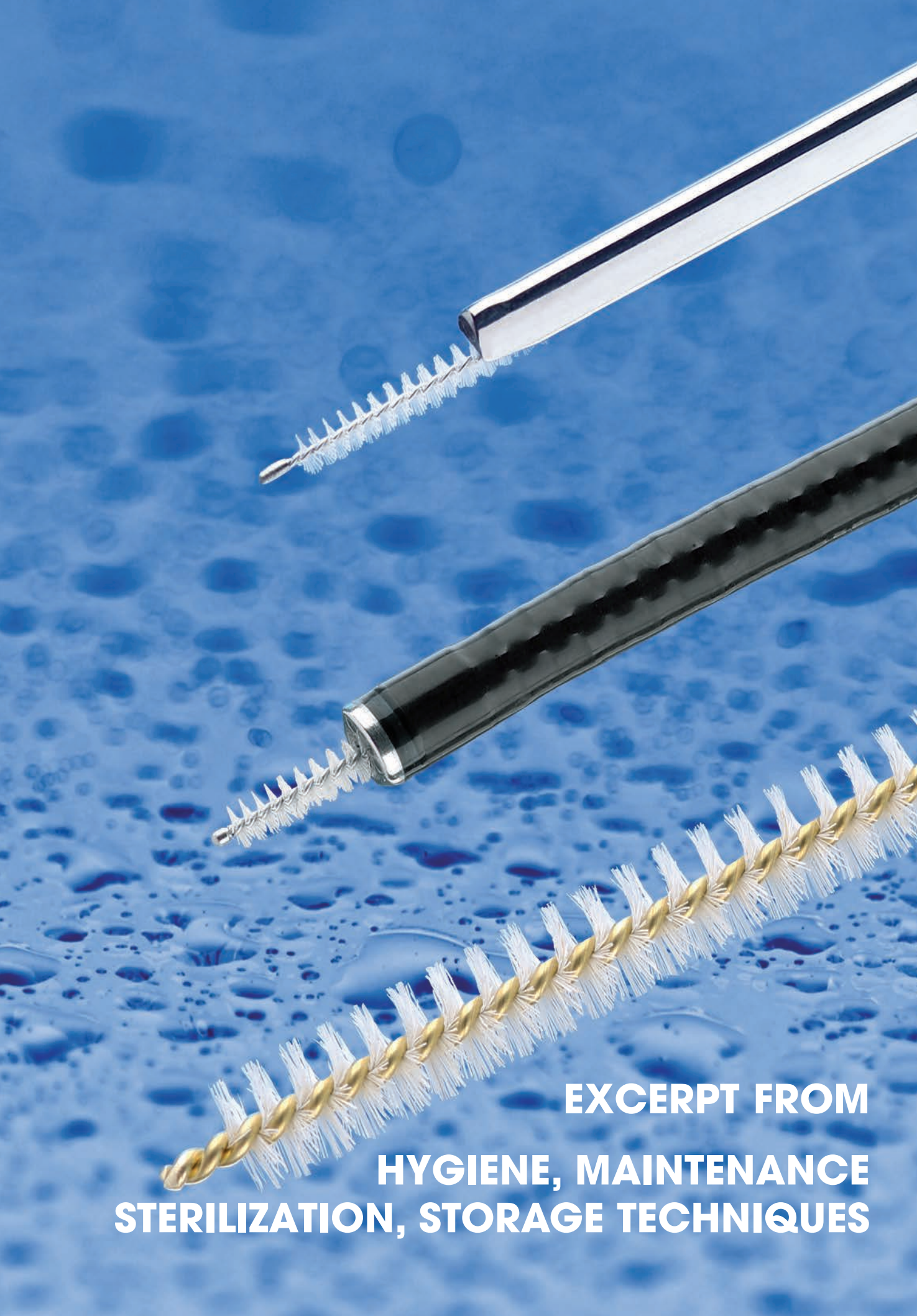
Components / Spare Parts		Catalog page
69131501	**Cold Light Fountain XENON NOVA® 175**	TP 101
20131520	**Cold Light Fountain XENON NOVA® 175,** power supply 100 – 125 VAC/ 220 – 240 VAC, 50/60 Hz	
400 A	**Mains Cord**	

Components / Spare Parts		Catalog page
20132101-1	**Cold Light Fountain XENON 175 SCB**	TP 102
20132120-1	**Cold Light Fountain XENON 175 SCB,** power supply 100 – 125/220 – 240 VAC, 50/60 Hz	
400 A	**Mains Cord**	
610 AFT	**Silicone Tubing Set,** length 250 cm	
20090170	**SCB Connecting Cable,** length 100 cm	

Components / Spare Parts		Catalog page
20134001	**Cold Light Fountain XENON NOVA® 300**	TP 103
20134020	**Cold Light Fountain XENON NOVA® 300,** power supply 100 – 125/220 – 240 VAC, 50/60 Hz	
400 A	**Mains Cord**	

Components / Spare Parts		Catalog page
20133101-1	**Cold Light Fountain XENON 300 SCB**	TP 104
20133120-1	**Cold Light Fountain XENON 300 SCB,** power supply 100 – 125/220 – 240 VAC, 50/60 Hz	
400 A	**Mains Cord**	
610 AFT	**Silicone Tubing Set,** length 250 cm	
20090170	**SCB Connecting Cable,** length 100 cm	

COMPONENTS
SPARE PARTS



EXCERPT FROM

HYGIENE, MAINTENANCE STERILIZATION, STORAGE TECHNIQUES

KARL STORZ Service Program

KARL STORZ — ENDOSKOPE

Full Service at First Hand

KARL STORZ has developed and optimized a special service program for the protection of patients, users and investments: ENDOPROTECT1

KARL STORZ ENDOPROTECT1 provides a comprehensive range of safe and cost-effective services to meet the needs of endoscopic equipment in everyday clinical practice.

Repair Service

- Manufacturer quality with new product guarantee
- Technology updates
- Product group and third-party product replacement
- Transparent and calculable costs

OR1™ Service

- Service and maintenance
- Hotline support
- On-site service
- Comprehensive support services

Set Audits

- Standardized sets
- Stock optimization
- Reduced processing time
- Reduced repair costs

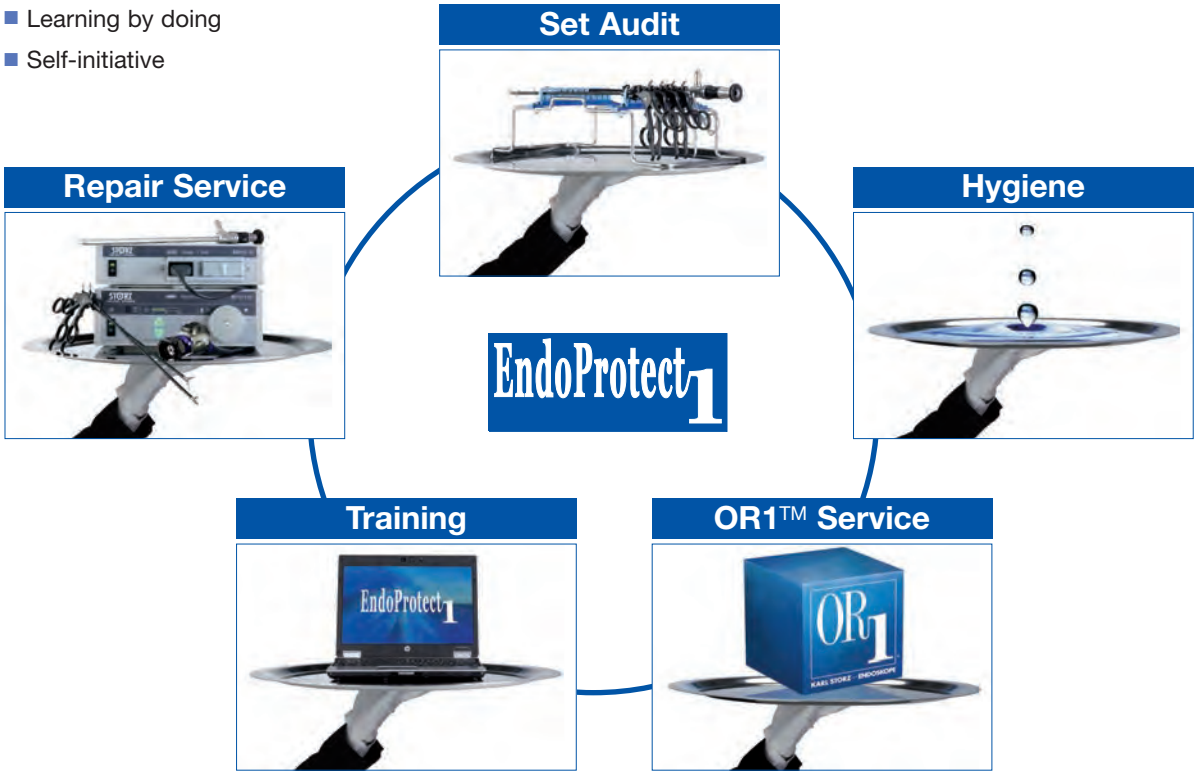
Hygiene

- Processing and maintenance
- Innovative storage systems
- Wide range of cleaning accessories
- Hygiene consulting service

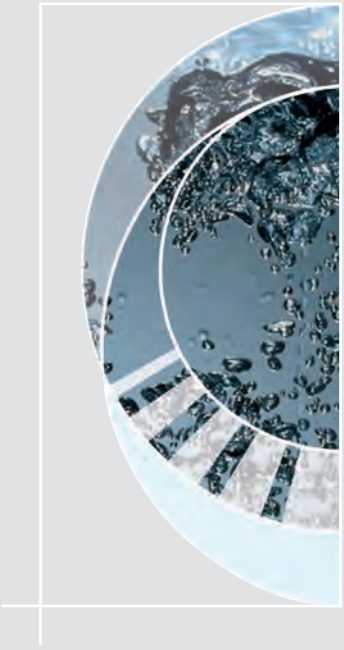
Training

- Avoidance of errors
- Success in learning ensured
- Learning by doing
- Self-initiative

ENDOPROTECT1 Service Program:
modular – safe – cost-effective



KARL STORZ — ENDOSKOPE



- CLEANING AND DISINFECTION
- MAINTENANCE
- STERILISATION
- STORAGE TECHNIQUES

Quality Standards during the Instrument Cycle

Hygiene must be treated as an integral responsibility and a fundamental component of the entire health care process.

This principle begins with instrument design: in addition to technical solutions, effective cleaning, disinfection and sterilization represent the central factors in the development of all instruments. The objective is to create a reusable instrument, the materials, design and quality of which allow preparation using a suitable process that takes all applicable norms and laws into consideration, while maintaining the full functionality of the instrument.

Optimal handling throughout the instrument cycle goes further still and complements the instrument with individually coordinated accessories for optimized storage during the entire process – from the operating theater to transportation to the central sterile supply department, right down to the individual preparation steps.

Intelligent storage systems cut handling expenses. A reduced amount of repacking guarantees maximum protection for the instruments, optimizes operating theater procedures and ensures the desired results of the preparation.

KARL STORZ achieves this objective by continuously developing new storage systems and improving existing ones according to the demands of medical professionals.

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Excerpt from HYGIENE, MAINTENANCE, STERILIZATION, STORAGE TECHNIQUES

KARL STORZ — ENDOSKOPE

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KARL STORZ — ENDOSKOPE

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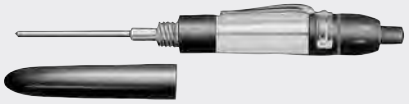
KARL STORZ — ENDOSKOPE

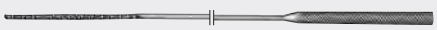
CLEANING
STERILIZATION AND MAINTENANCE
STORAGE TECHNIQUES

Accessories for Maintenance and Cleaning

	27655	**Oil Dropper,** for Instrument Oil
	27656 S	**Oil Dropper,** for maintenance of instruments, silicone-free
	27656 B	**Instrument Oil,** 50 ml, silicone-free
	27657	**Special Lubricant**, for stopcocks
	27658	**Wadding Silver Polish “duraglit”**
	27661	**Cleaning Agent,** for distal or proximal lenses and fiber optic surface of endoscopes, content 5 g

4-97₄

Accessories for Maintenance and Cleaning



10384 A **Cotton Applicator,** working length 50 cm
10384 B **Same,** working length 35 cm

10387 A **Sponge Holder,** with spring handle, working length 50 cm
10387 B **Same,** working length 35 cm

27662 **Grasping Forceps, with serrated rubber jaws,** for carefully handling the instruments

39100 L **Opening Spring,** for SilCut® and similar forceps

39105 A **Cleaning Adaptor,** for manual or machine cleaning of instruments without irrigation port from 1.5 to 5 mm diameter

39105 B **Cleaning Adaptor,** for manual or machine cleaning of instruments without irrigation port from 5 to 8 mm diameter

4-97₄

Accessories for Maintenance and Cleaning

	28166 LL	**Cleaning Adaptor,** for **ARTHROFORCE®** **TAKE-APART®** instruments
	600007	**LUER-Lock Tube Connector,** male, tube diameter 6 mm
	26040 BX	**Telescope Lock Plug,** with LUER-Lock for aspiration of liquid
	28205 SA	**Irrigation Adaptor,** for validated cleaning of shaver handpieces
	28205 SAA	**Irrigation Adaptor,** for validated cleaning of outer blades

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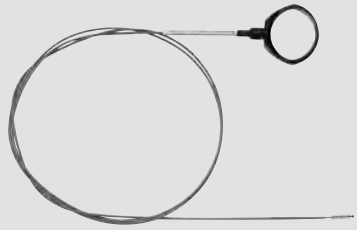
Accessories for Maintenance and Cleaning

27652

27650 A-G



27651 AK-UB

Art. No.	Flat	Round/rigid	Round/ flexible	Length	Outer diameter	Channel diameter	Notes
27652	●	–	–	–	–	–	for cleaning the jaws
27648 A	–	●	–	55 cm	16 mm	4 – 14 mm	
27650 A	–	●	–	35 cm	11 mm	3 – 9 mm	
27650 B	–	●	–	35 cm	7 mm	2.5 – 5 mm	
27650 C	–	●	–	35 cm	2.5 mm	2 – 2.4 mm	
27650 D	–	●	–	50 cm	11 mm	3 – 9 mm	
27650 E	–	●	–	50 cm	7 mm	2.5 – 5 mm	
27650 F	–	●	–	50 cm	2.5 mm	2 – 2.4 mm	
27650 G	–	●	–	50 cm	2.5 mm	–	for CLICK*line*® and RoBi®
27651 AK	–	–	●	75 cm	2 mm	1.2 – 1.8 mm	
27651 AL	–	–	●	150 cm	2 mm	1.2 – 1.8 mm	
27651 B	–	–	●	100 cm	3 mm	1.8 – 2.6 mm	
27651 C	–	–	●	230 cm	4 mm	2.4 – 3.6 mm	
27651 E	–	–	●	350 cm	4 mm	2.4 – 3.6 mm	
27651 F	–	–	●	180 cm	2.5 mm	1.4 – 2.3 mm	
27651 G	–	–	●	180 cm	3 mm	1.8 – 2.6 mm	
27651 H	–	–	●	230 cm	5 mm	2.2 – 4.6 mm	
27651 I	–	–	●	270 cm	5 mm	2.2 – 4.6 mm	
27651 UA	–	–	●	60 cm	2 mm	1.4 – 1.8 mm	
27651 UB	–	–	●	60 cm	2.2 mm	0.8 – 2 mm	
60652 LL	–	–	●	400 cm	5 mm	2.2 – 4.6 mm	veterinary medicine
27651 K1	–	–	●	40 cm	–	0.4 – 0.6 mm	for single use, 10 pcs.
27651 K2	–	–	●	40 cm	–	0.6 – 0.8 mm	for single use, 10 pcs.
27651 K3	–	–	●	40 cm	–	0.8 – 1.4 mm	for single use, 10 pcs.
27651 K4	–	–	●	40 cm	–	0.2 – 0.4 mm	for single use, 10 pcs.
27651 K5	–	–	●	40 cm	–	0.25 – 0.4 mm	for single use, 10 pcs.

7-97₄

Accessories for Maintenance and Cleaning

27660

	27660	**Cleaning Pistols Set, autoclavable,** for fast and easy rinsing or drying of instruments, attachable to standard hospital ¾" water or compressed air connections, with fabric tube, including Cleaning Attachments 27660 A – H and wall support
	27660 P	**Cleaning Pistol,** only, **autoclavable,** with fibrous tubing, without accessories

Cleaning Attachments, for use with Cleaning Pistol 27660 P

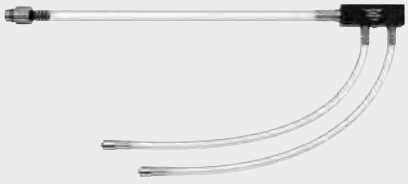
	27660 A	**Attachment,** for cannulas
	27660 B	**Attachment,** for channels
	27660 C	**Attachment,** for valves
	27660 D	**Attachment,** for tubes
	27660 E	**Attachment,** for Luer connectors
	27660 F	**Attachment,** for surfaces and hollow spaces
	27660 G	**Attachment,** for surfaces and hollow spaces
	27660 H	**Attachment,** as water jet pump for suction of corners and hollow spaces

7-97₄

Cleaning Accessories

for Fiber- and Video Endoscopes with Sheath Diameter ≤ 10 mm

KARL STORZ — ENDOSKOPE

	11301 BM	**Adaptor,** for leakage test, for Belimed washer-disinfectors
	11301 HH	**Adaptor for BHT Cleaning Machines,** for automatic leakage test of flexible KARL STORZ endoscopes
	13242 XA	**Adaptor,** for manual leakage test with 13242 XL or automatic leakage test in washer/disinfector
	11301 FF2	**Adaptor for MIELE Cleaning Machines,** with safety valve, for automatic leakage test of flexible KARL STORZ endoscopes
	11301 GG2	**Adaptor,** for cleaning and disinfecting the irrigation and working channels of flexible endoscopes, for MIELE-ETD washer-disinfectors
	11301 KK2	**Adaptor,** for working channel of flexible endoscopes, for MIELE-ETD 03 washer/disinfectors Please note: Adaptors 11301 FF2 and 11301 GG2 have to be ordered separately!
	13242 XL	**Leakage Tester,** with bulb and manometer

1-03$_3$

Cleaning Accessories

for Video Endoscopes with Sheath Diameter ≥ 10 mm

13991 CK

Cleaning Tubing Set Gastro, for the cleaning and disinfection of video endoscopes in gastroenterology, particularly for use with RDG-E automatic units with one-channel monitoring

including:

Seal for double valve

Leakage tester adaptor

Adaptor for aspiration

Adaptor air/water

Irrigation Tube, reusable

13242 XT

Adaptor for Leakage Tester, large, with 60 cm tube for GI video endoscopes

13242 LX

Leakage Tester, with bulb and manometer

7-11

Components see COMPONENTS, SPARE PARTS

Cases for Cleaning and Disinfection

Plastic Basins for Cleaning and Disinfection Solutions

27645

27645	**Disinfection System,** for use with fiberscopes including: 1. **Soak Basin** 2. **Perforated Storage Tray** 3. **Lid** Internal dimensions (w x d x h): 503 x 186 x 132 mm
27646	**Disinfection System,** for use with fiberscopes including: 1. **Soak Basin** 2. **Perforated Storage Tray** 3. **Lid** Internal dimensions (w x d x h): 740 x 220 x 132 mm
27647 V	**Disinfection System,** for use with fiberscopes including: 1. **Soak Basin** 2. **Perforated Storage Tray** 3. **Lid** Internal dimensions (w x d x h): 694 x 381 x 141 mm

Please note:

– Instruments must be disassembled and cleaned prior to disinfection. To disinfect, immerse instrument completely in solution.

– Follow manufacturer's instructions regarding time period for soaking and solution density.

– To wash out instruments, remove perforated storage tray from the disinfectant solution and rinse instruments thoroughly with sterile or desalinated water in a second basin.

– Tilt basin gently to remove air bubbles during disinfection.

4-97₂

Quiver for Disinfection* and Storage of Flexible Endoscopes

KARL STORZ — ENDOSKOPE

For fixation to storage cabinets

621 C

Quiver Set, for disinfection* and storage of fiberscopes including:
Quiver Head, for fiberscopes
Metal Tube
Sealing Cap
Holder, to be screwed to a storage cabinet

Quiver Set	Working Length max.	Quiver Head	Metal Tube	Sealing Cap	Holder
621 C	30 cm	621 L	621 CT	621 M	620 N
621 D	40 cm	621 L	621 DT	621 M	620 N
621 H	76 cm	621 L	621 HT	621 M	620 N

Please note: Precisely follow manufacturer's specifications regarding solution density and soaking period when mixing and applying solutions. If soaked too long, instruments may be damaged. Store endoscopes in a dry place after rinsing with demineralized or sterilized water.

Note: Steam sterilization of quiver set is possible at a temperature of 134 °C.

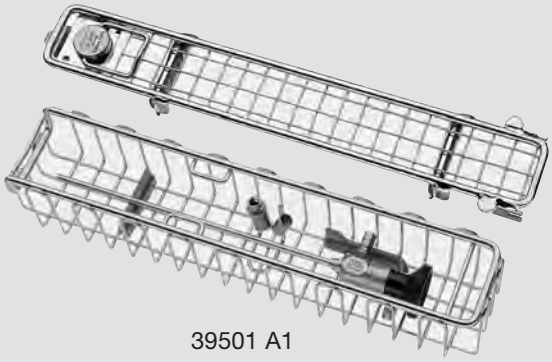
* Please also take note of the statutory regulations valid in your country regarding the disinfection of quivers.

1-03$_2$

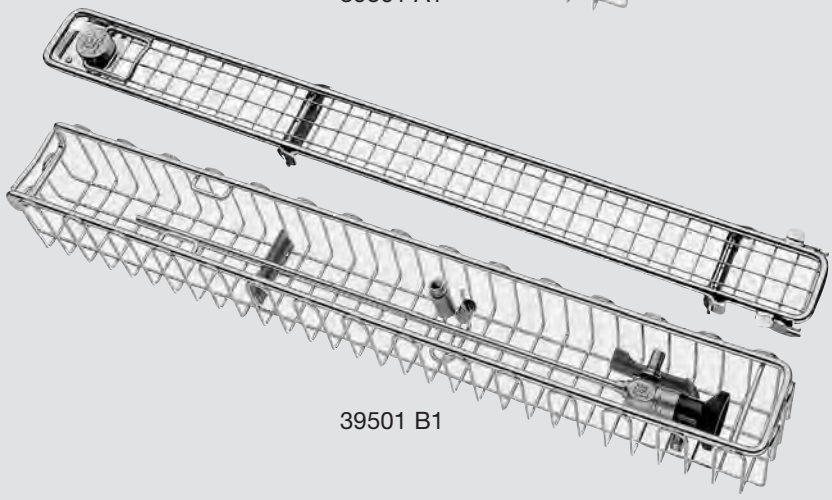
Wire Trays for Cleaning, Sterilization and Storage of Endoscopes

KARL STORZ — ENDOSKOPE

For safe storage of telescopes during transport and machine cleaning. For sterile storage the trays may either be wrapped individually or put into a container. The trays may be used for sterilization with steam, gas or plasma.



39501 A1



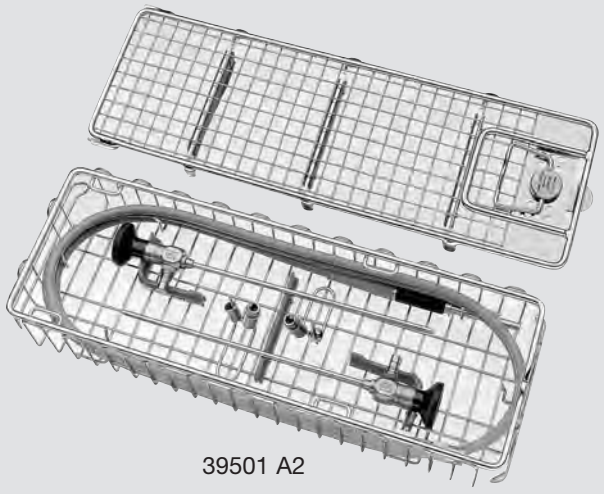
39501 B1

39501 A1	**Wire Tray for Cleaning, Sterilization and Storage** of one rigid endoscope, including holder for light post adaptors, silicone telescope holders and lid, external dimensions (w x d x h): 290 x 60 x 52 mm, for rigid endoscopes up to diameter 5 mm and working length 20 cm
39501 B1	**Wire Tray for Cleaning, Sterilization and Storage** of one rigid endoscope, including holder for light post adaptors, silicone telescope holders and lid, external dimensions (w x d x h): 430 x 65 x 52 mm, for rigid endoscopes up to diameter 10 mm and working length 34 cm
39501 C	**Wire Tray for Cleaning, Sterilization and Storage** of one rigid telescope, with silicone telescope holder and lid, external dimensions (w x d x h): 670 x 80 x 52 mm, for telescopes for bronchoscopy and esophagoscopy

3-07

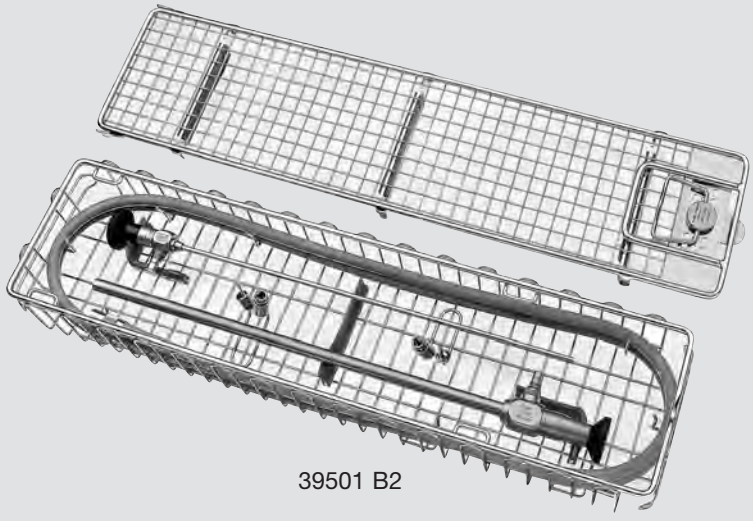
Please note: The instruments displayed are not included in the sterilization tray.

Wire Trays for Cleaning, Sterilization and Storage of Endoscopes



39501 A2

39501 A2 **Wire Tray for Cleaning, Sterilization and Storage** of two rigid endoscopes and one light guide cable, including holder for light post adaptors, silicone telescope holders and lid, external dimensions (w x d x h): 352 x 125 x 54 mm, for rigid endoscopes up to diameter 10 mm and working length 20 cm



39501 B2

39501 B2 **Wire Tray for Cleaning, Sterilization and Storage** of two rigid endoscopes and one light cable, including holder for light post adaptors, silicone telescope holders and lid, external dimensions (w x d x h): 487 x 125 x 54 mm, for rigid endoscopes up to diameter 10 mm diameter and working length 34 cm

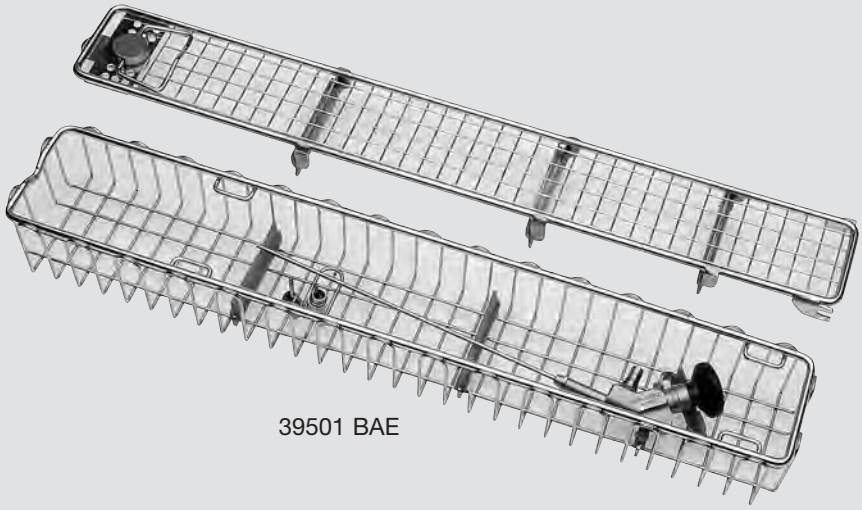
7-05

Please note: The instruments displayed are not included in the sterilization tray.

Wire Trays for Cleaning, Sterilization and Storage of Endoscopes

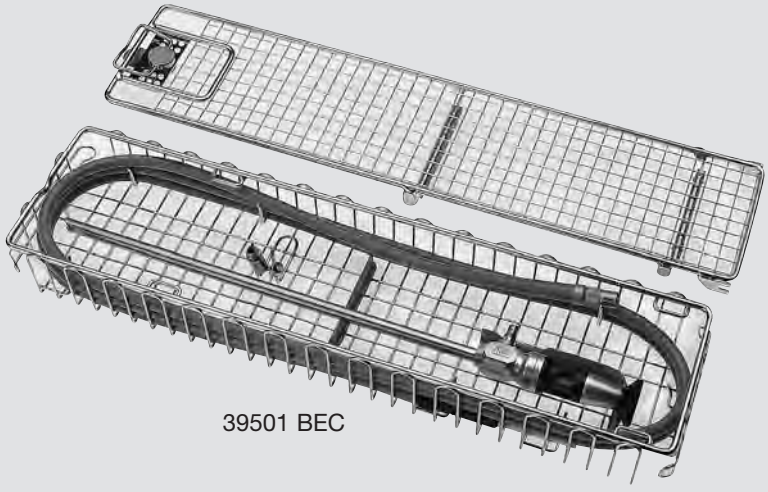
NEW

KARL STORZ — ENDOSKOPE



39501 BAE

39501 BAE **Wire Tray for Cleaning, Sterilization and Storage** of one rigid endoscope with angled eyepiece, including holder for light post adaptors, silicone telescope holders and lid, external dimensions (w x d x h): 460 x 80 x 52 mm



39501 BEC

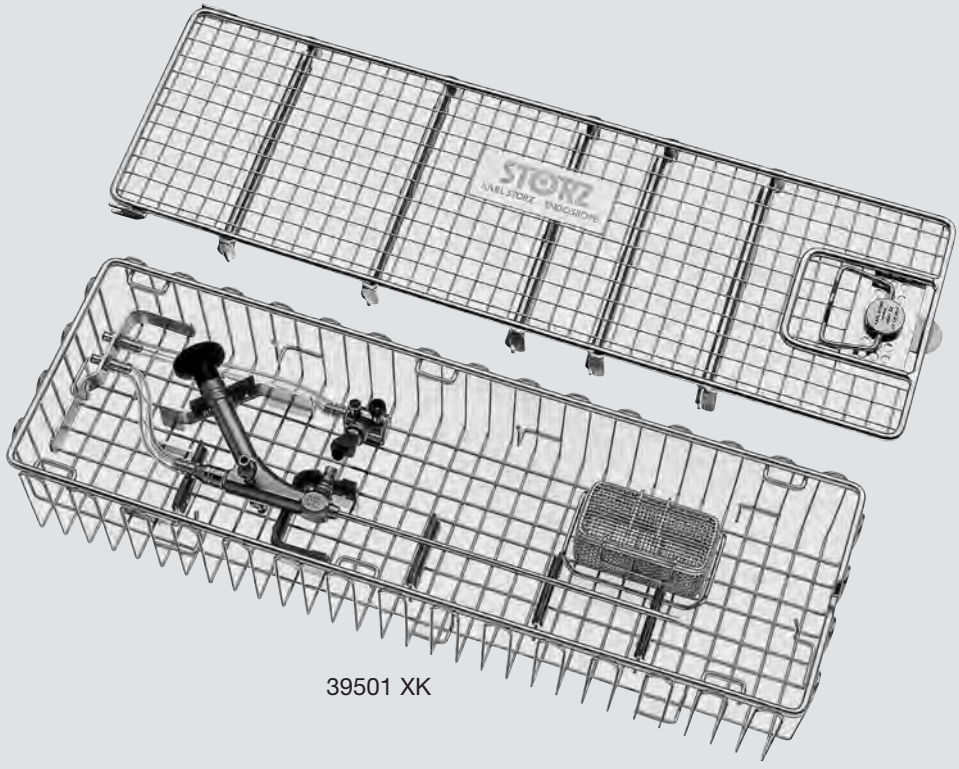
39501 BEC **Wire Tray for Cleaning, Sterilization and Storage** of one ENDOCAMELEON®, length 32 cm and one light cable, including holder for light post adaptor, silicone telescope holder and lid, external dimensions (w x d x h): 480 x 125 x 54 mm

39501 CEC **Wire Tray for Cleaning, Sterilization and Storage** of one ENDOCAMELEON®, length 42 cm and one light cable, including holder for light post adaptor, silicone telescope holder and lid, external dimensions (w x d x h): 604 x 125 x 54 mm

7-11

Please note: The instruments displayed are not included in the sterilization tray.

Wire Trays for Cleaning, Sterilization and Storage of Semiflexible Endoscopes



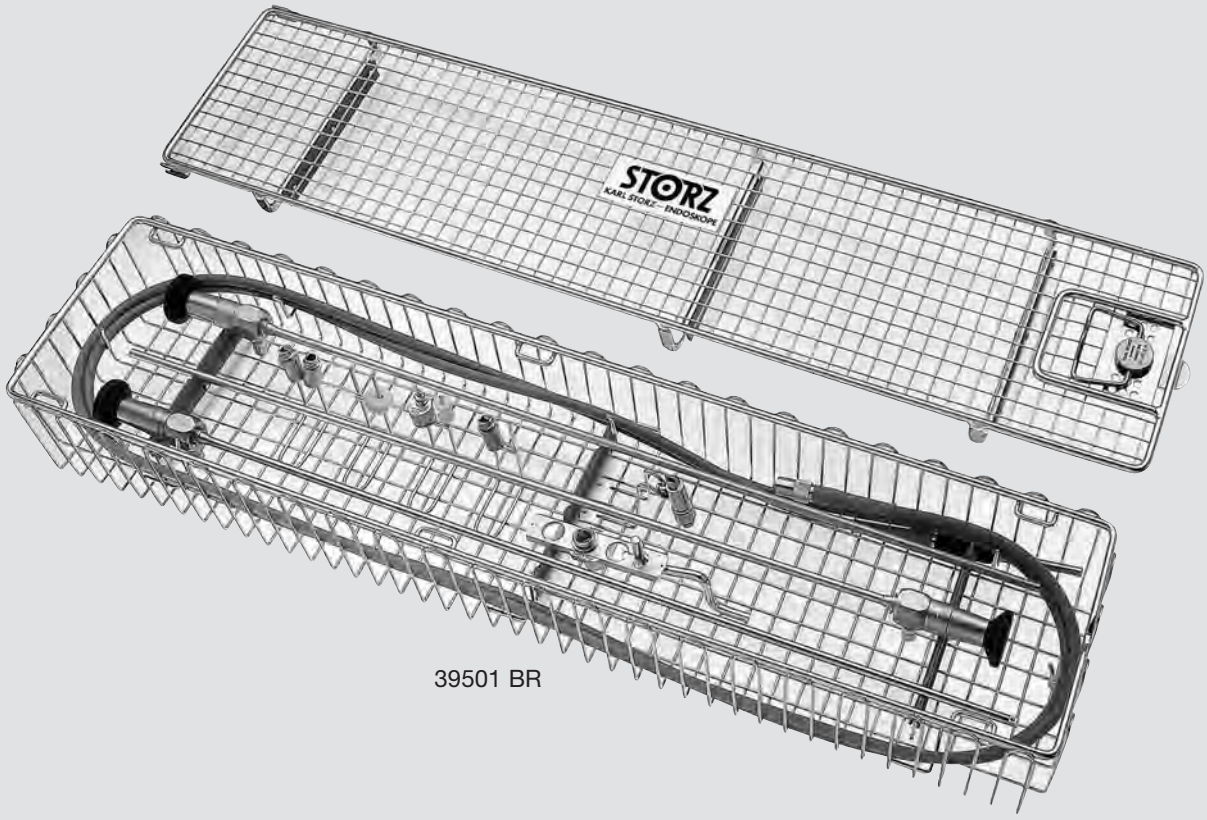
39501 XK

39501 X	**Wire Tray for Cleaning, Sterilization and Storage** of **uretero-renoscopes,** including cleaning adaptor for washer-disinfector, with lid, spare parts basket 39501 XS and silicone telescope holders, external dimensions (w x d x h): 644 x 150 x 80 mm, for use with URS models with working length up to 43 of the product numbers 270xx
39501 XK	**Wire Tray for Cleaning, Sterilization and Storage** of **pediatric uretero-renoscopes** and compact miniature hysteroscopes with a maximum working length of 27 cm, including cleaning adaptor for washer-disinfector, with lid, spare parts basket 39501 XS and silicone telescope holders, external dimensions (w x d x h): 460 x 150 x 80 mm, for use with instruments 270xx and 260x2 K with up to 27 cm working length

3-07

Please note: The instruments displayed are not included in the sterilization tray.

Wire Trays for Cleaning, Sterilization and Storage of Endoscopes and Instruments



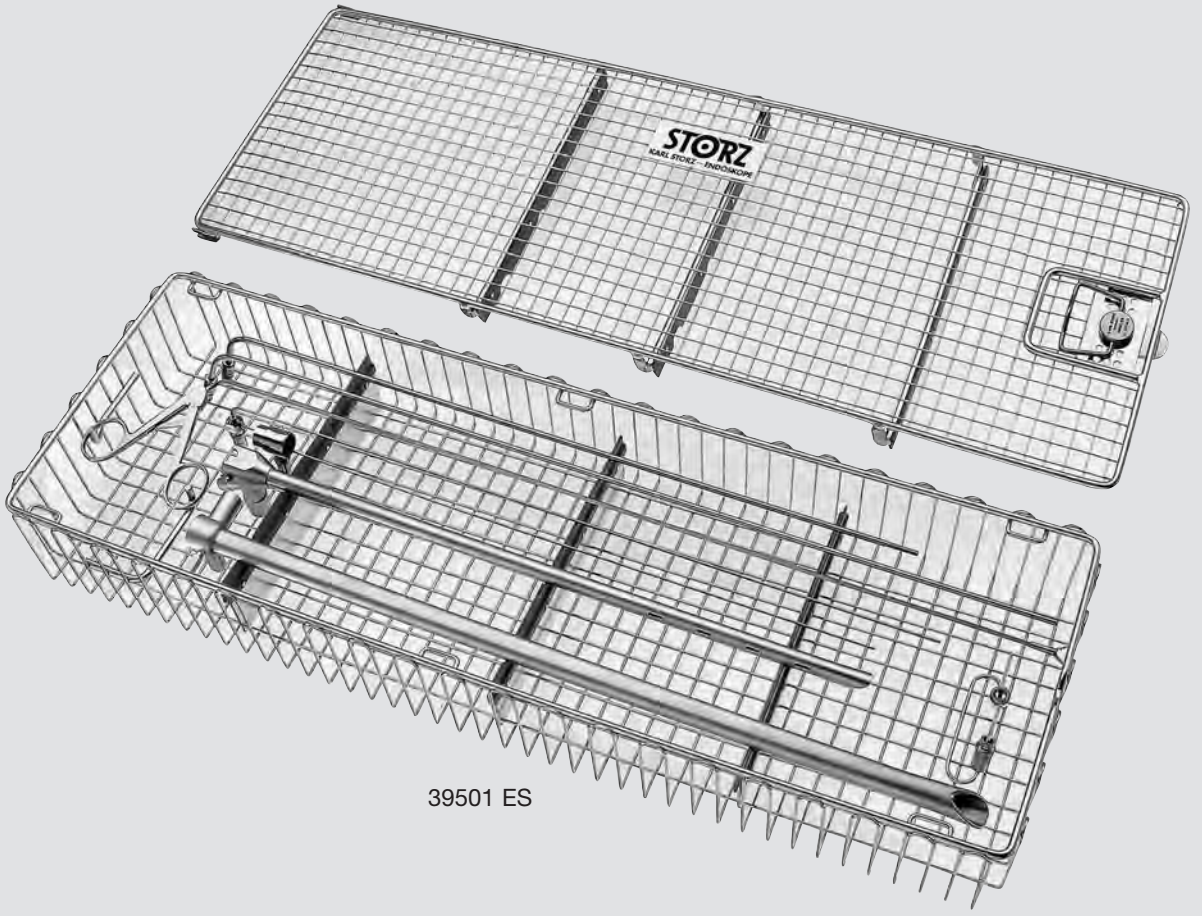
39501 BR

39501 BR **Wire Tray for Cleaning, Sterilization and Storage of telescopes and accessories for bronchoscopy,** including silicone telescope holders and lid, external dimensions (w x d x h): 622 x 150 x 78 mm

3-07

Please note: The instruments displayed are not included in the sterilization tray.

Wire Trays for Cleaning, Sterilization and Storage of Endoscopes and Instruments



39501 ES

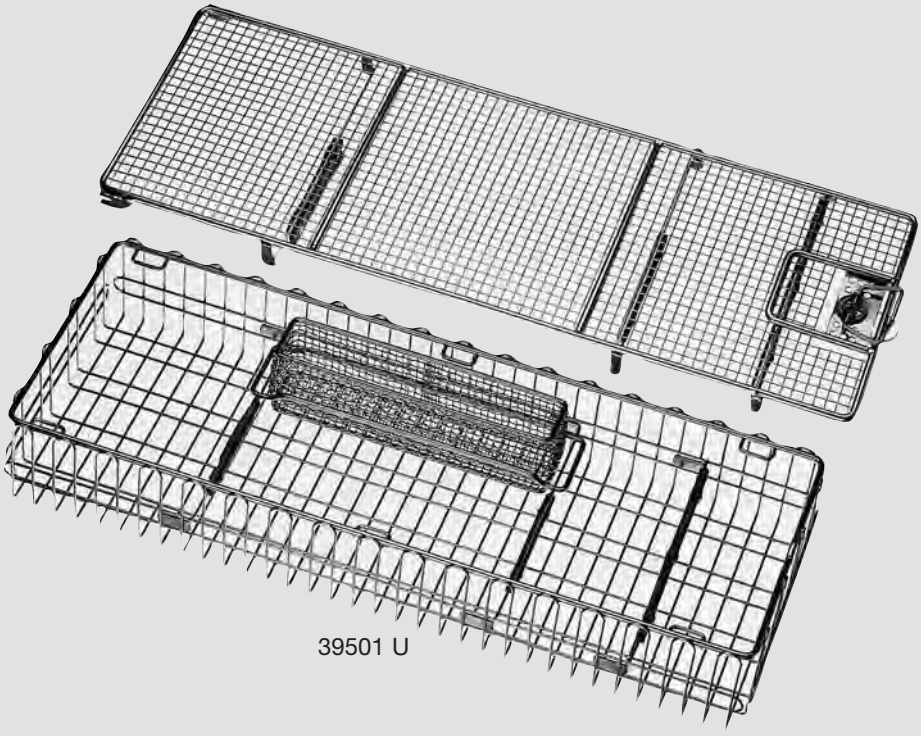
39501 ES **Wire Tray for Cleaning, Sterilization and Storage of instruments and accessories for oesophagoscopy,** including silicone telescope holders and lid, external dimensions (w x d x h): 640 x 216 x 78 mm

3-07

Please note: The instruments displayed are not included in the sterilization tray.

Wire Trays for Cleaning, Sterilization and Storage of Endoscopes and Instruments

KARL STORZ — ENDOSKOPE



39501 U

39501 U	**Wire Tray for Cleaning, Sterilization and Storage of telescopes and instruments,** with silicone telescope holders, tray for small parts and lid, external dimensions (w x d x h): 510 x 185 x 82 mm, for angled telescopes and uretero-renoscopes up to working length 34 cm
39501 V	**Wire Tray for Cleaning, Sterilization and Storage of telescopes and instruments,** with silicone telescope holders, tray for small parts and lid, external dimensions (w x d x h): 608 x 185 x 82 mm, for angled telescopes and uretero-renoscopes up to working length 43 cm

7-97$_3$

Wire Trays for Cleaning, Sterilization and Storage of Instruments

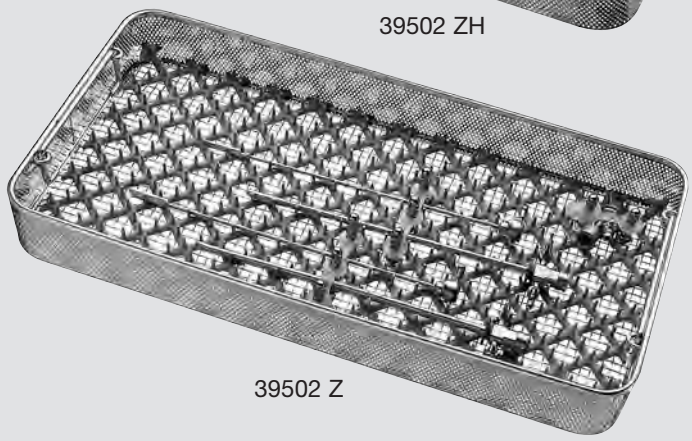
NEW

KARL STORZ — ENDOSKOPE

Components of modular processing systems

- **Trays made from electropolished stainless steel mesh wire 39502 XH/X or with hole plate walls 39502 ZH/Z/ZL**
- **Wide-mesh silicone knob mats “Diamond” and/or “Large Diamond” 39502 SHK/SH/S/SL**
- **Fixiation Pin 39100 PS for screwing instruments into position**
- **Silicone Tie-down 39360 AS**
- **The modular processing system can be ideally combined with Instrument Racks 39219 XV/XU**

39502 ZH



39502 Z

Standard wire trays for cleaning, sterilization and storage of instruments, mesh wire or hole plate walls, stackable and foldaway handles

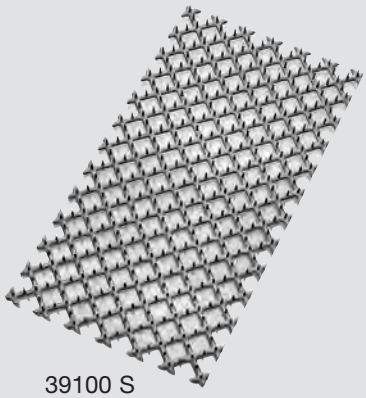
Wire Tray	External Dimensions (w x d x h)	Special Features	Suitable for
39502 XH	240 x 250 x 50 mm	mesh wire	div. instruments
39502 ZH	240 x 250 x 66 mm	hole plate wall	div. instruments
39502 X	480 x 250 x 50 mm	mesh wire	div. instruments
39502 Z	480 x 250 x 66 mm	hole plate wall	div. instruments
39502 ZL	535 x 250 x 66 mm	hole plate wall	div. instruments

7-11

Please note: The instruments displayed are not included in the sterilization tray.

Accessories for Cleaning, Sterilization and Storage of Instruments

NEW

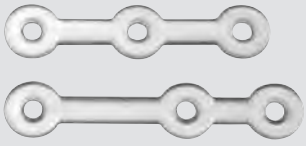


39100 S

39100 S	**Large Diamond Grid Silicone Insert,** blue, extra wide mesh, for the storage of instruments in standard wire trays, plastic and sterilization containers, external dimensions: (w x d): 470 x 240 mm
39100 SH	**Same,** external dimensions (w x d): 230 x 240 mm
39100 SL	**Same,** external dimensions (w x d): 530 x 240 mm
39100 SHS	**Silicone Grid Insert, "Small Diamond Grid",** blue, wide mashed, for storage of instrumente in standard wire baskets and sterilization container. External dimensions: 240 x 230 mm

39100 PS

39100 PS	**Fixation Pin,** including screw and washer, to screw instruments into position in wire trays, height 38 mm, package of 12, for use with Silicone Tie-Downs 39360 AS



39360 AS

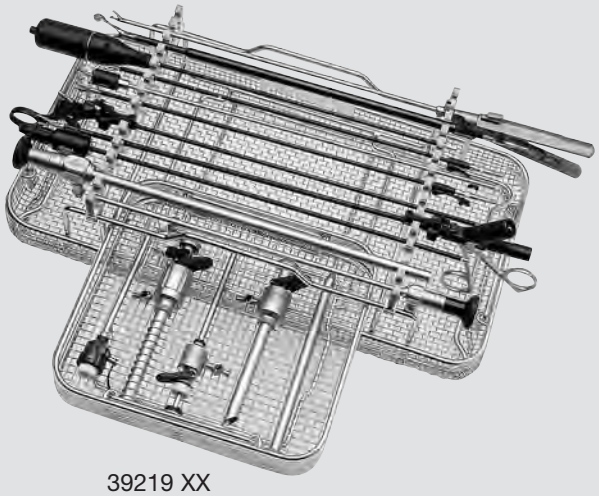
39360 AS	**Silicone Tie-Downs,** package of 12, for use with Fixation Pins 39100 PS and 39360 AP

7-11

Instrument Racks for Cleaning, Sterilization and Storage of Instruments

NEW

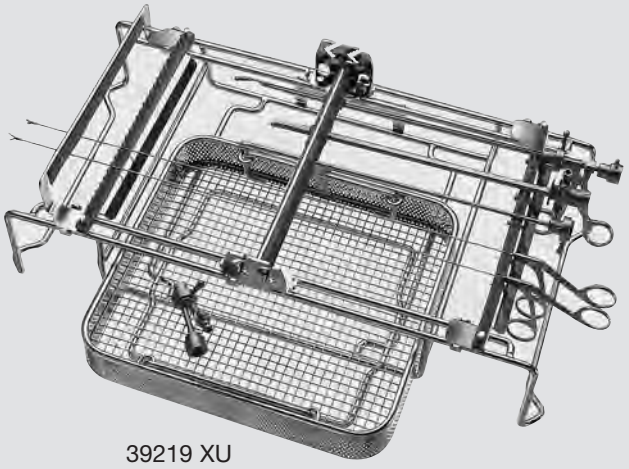
KARL STORZ — ENDOSKOPE



39219 XX

39219 XX **Instrument Rack Set for Cleaning, Sterilization and Storage** of up to 14 instruments with diameter 2.5 to 10 mm, incl. variable bars with silicone holders, rack with Tray 39502 V for drawer and Wire Tray 39502 X, external dimensions (w x d x h): 480 x 250 x 125 mm

39219 XV **Instrument Rack for Cleaning, Sterilization and Storage** of up to 14 instruments with diameter 2.5 to 10 mm, incl. variable bars with silicone holders, rack with Tray 39502 V for drawer and Wire Tray 39502 X, for use with standard wire trays, external dimensions (w x d x h): 463 x 238 x 125 mm



39219 XU

39219 XU **Universal Instrument Rack with Silicone Holders and Tie-downs,** with Tray 39502 V as drawer, for storage of instrument sets, for use with standard wire trays, external dimensions (w x d x h): 460 x 233 x 145 mm

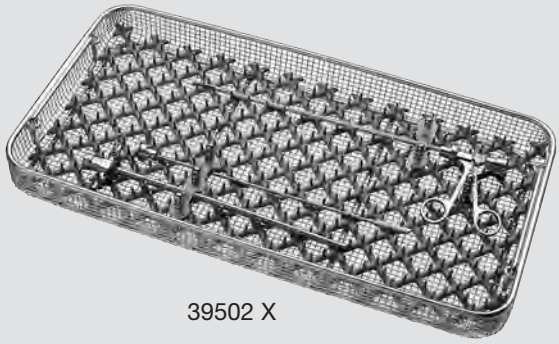
7-11

Please note: The instruments displayed are not included in the instrument tray.

Wire Trays for Cleaning, Sterilization and Storage of Instruments NEW

KARL STORZ — ENDOSKOPE

Modular processing system: Possible set combinations

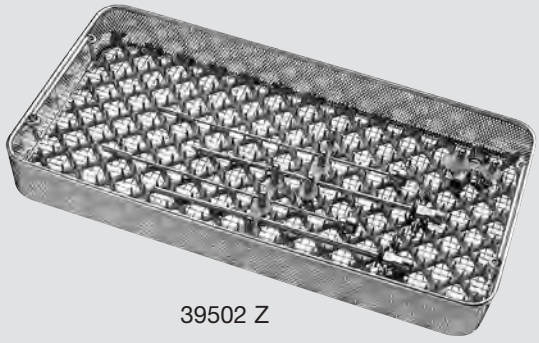


39502 X

Set 1

39502 X	**Wire Tray, stackable,** mesh wire
39502 L	**Lid**
39100 S	**Silicone Insert**
39100 PS	**Fixation Pins,** package of 12
39360 AS	**Silicone Tie-Downs,** package of 12

Can be combined with 39219 XV or 39219 XU
(cannot be used with Lid 39502 L)



39502 Z

Set 2

39502 Z	**Wire Tray, stackable,** with hole plates
39502 L	**Lid**
39100 S	**Silicone Insert**
39100 PS	**Fixation Pins,** package of 12
39360 AS	**Silicone Tie-Downs,** package of 12

Can be combined with 39219 XV or 39219 XU
(cannot be used with Lid 39502 L)

7-11

Please note: The instruments displayed are not included in the sterilization tray.

Wire Trays for Cleaning, Sterilization and Storage of Instruments NEW

KARL STORZ — ENDOSKOPE

Modular processing system: Possible set combinations

39502 XH

Set 1B

39502 XH	**Wire Tray, stackable,** mesh wire
39502 LH	**Lid**
39100 SH	**Silicone Insert**
39100 PS	**Fixation Pins,** package of 12
39360 AS	**Silicone Tie-Downs,** package of 12

39502 ZH

Set 2B

39502 ZH	**Wire Tray, stackable,** with hole plates
39502 LH	**Lid**
39100 SH	**Silicone Insert**
39100 PS	**Fixation Pins,** package of 12
39360 AS	**Silicone Tie-Downs,** package of 12

7-11

Please note: The instruments displayed are not included in the sterilization tray.

Instrument Racks for Cleaning, Sterilization and Storage of Instruments

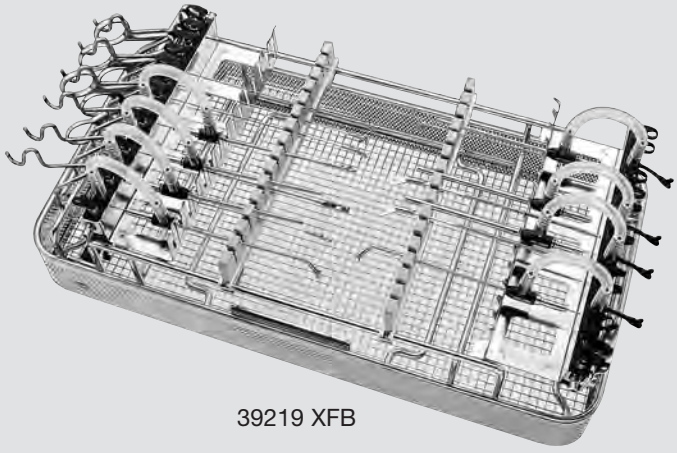
NEW

KARL STORZ — ENDOSKOPE

Instrument Racks, specially designed for Sinu*FIT*® and Laryngo*FIT*® instruments

Special Features:

- **Optimized instrument storage**
- **Separate storage for inner and outer sheaths of 3-part dismantling instruments**
- **Individual connection of sheaths via LUER adaptor**
- **Positive opening of jaws of 2-part dismantling instruments**
- **Systematic flushing of handles**
- **Direct connection of instrument rack to washer-disinfector**



39219 XFB

39219 XF **Instrument Rack for Cleaning, Sterilization and Storage** of up to 15 **Laryngo*FIT*®** or 15 **Sinu*FIT*®** instrument attachments and 6 handles, incl. variable bars with silicone holder and direct connection of the instrument attachments via a multi-port bridge to the washer-disinfector, external dimensions (w x d x h): 480 x 250 x 160 mm

39219 XFB **Instrument Rack for Cleaning, Sterilization and Storage** of up to 15 **Laryngo*FIT*®** or 30 **Sinu*FIT*®** working inserts and 6 handles, incl. variable bars with silicone holder and direct connection of the working inserts via a multi-port bridge to the washer-disinfector, external dimensions (w x d x h): 480 x 250 x 160 mm

7-11

Please note: The instruments displayed are not included in the sterilization tray.

Instrument Racks for Cleaning, Sterilization and Storage of Instruments

NEW

KARL STORZ — ENDOSKOPE

Optional accessories

39502 V

39502 V **Wire Tray for Cleaning, Sterilization and Storage** of instruments, with hole plate walls and foldaway handles, external dimensions (w x d x h): 228 x 248 x 45 mm

7-11

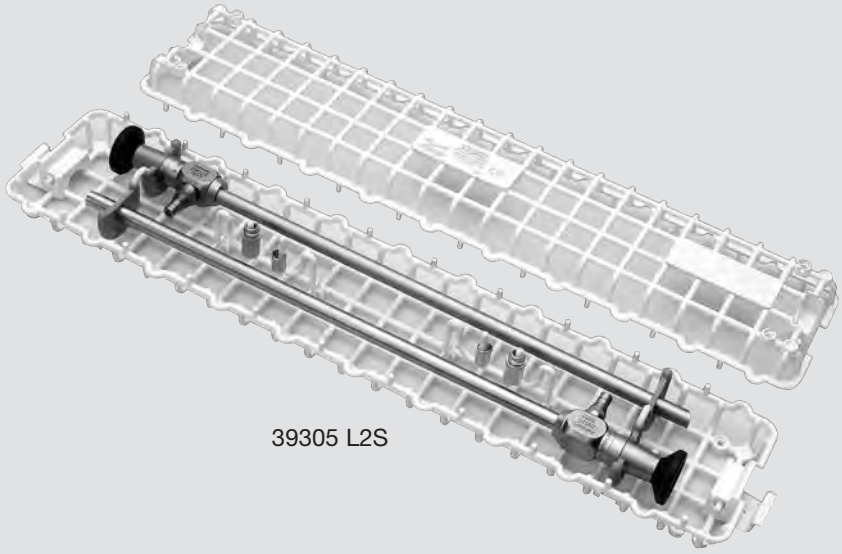
Plastic Containers for Cleaning, Sterilization and Storage of Endoscopes

NEW

KARL STORZ — ENDOSKOPE

Special Features:

- **Combines the advantages of the proven wire mesh tray for telescopes and that of a lightweight plastic tray**
- **Wide-mesh tray for minimal influence on the cleaning kinetics of the washer-disinfector**
- **Minimal instrument contact surface for maximum cleaning performance**
- **Vibration-absorbing silicone holders for maximum proctection of optical systems during transport and machine cleaning**
- **Approx. 60 % weight reduction compared to the proven steel wire trays**



39305 L2S

39305 C1S	**Plastic Container for Cleaning, Sterilization and Storage** of one rigid endoscope with a diameter up 5 mm and working length 34 cm, including holders for light post adaptors, for variable positioning of silicone telescope holders and lid, external dimensions (w x d x h): 470 x 105 x 50 mm
39305 C2S	**Plastic Container for Cleaning, Sterilization and Storage** of two rigid endoscopes with a diameter up 5 mm and working length 34 cm, including holders for light post adaptors, for variable positioning of silicone telescope holders and lid, external dimensions (w x d x h): 470 x 105 x 50 mm
39305 L1S	**Plastic Container for Cleaning, Sterilization and Storage** of one rigid endoscope with a diameter up 10 mm and working length 34 cm, including holders for light post adaptors, for variable positioning of silicone telescope holders and lid, external dimensions (w x d x h): 470 x 105 x 50 mm
39305 L2S	**Plastic Container for Cleaning, Sterilization and Storage** of two rigid endoscopes with a diameter up 10 mm and working length 34 cm, including holders for light post adaptors, for variable positioning of silicone telescope holders and lid, external dimensions (w x d x h): 470 x 105 x 50 mm

7-11

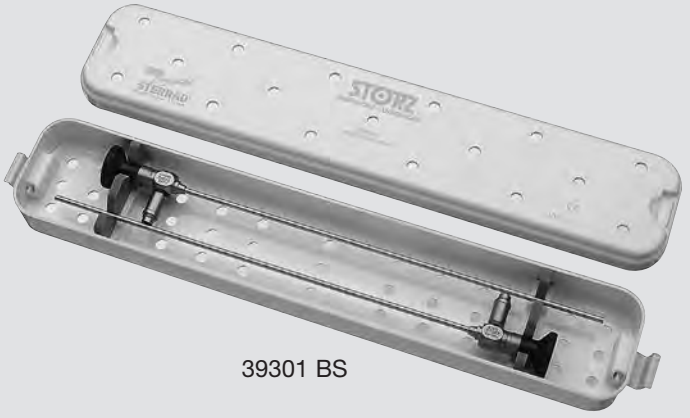
Please note: The instruments displayed are not included in the sterilization tray.

Plastic Containers for Sterilization and Storage of Endoscopes

KARL STORZ — ENDOSKOPE

Plastic container with silicone telescope holders for secure fixation of rigid endoscopes during sterilization and storage.

The plastic containers are suitable for steam, gas and hydrogen peroxide (Sterrad®) sterilization.



39301 BS

NEW	39301 AS	**Plastic Container for Sterilization,** suitable for steam, gas, and hydrogen peroxide (Sterrad®) sterilization and storage, perforated, with lid, for use with two rigid endoscopes up to max. 20 cm working length, external dimensions (w x d x h): 321 x 90 x 45 mm
NEW	39301 BS	**Plastic Container for Sterilization,** suitable for steam, gas, and hydrogen peroxide (Sterrad®) sterilization and storage, perforated, with lid, for use with two rigid endoscopes up to max. 34 cm working length, external dimensions (w x d x h): 446 x 90 x 45 mm
NEW	39301 CS	**Plastic Container for Sterilization,** suitable for steam, gas, and hydrogen peroxide (Sterrad®) sterilization and storage, perforated, with lid, for use with two rigid endoscopes with a working length of over 34 cm, external dimensions (w x d x h): 520 x 90 x 45 mm
	39301 D	**Plastic Container for Sterilization and Storage of Endoscopes,** perforated, with transparent lid, with silicone telescope holder, external dimensions: (w x d x h): 670 x 116 x 80 mm

7-11

Please note: The instruments displayed are not included in the plastic containers.

Plastic Containers for Sterilization and Storage of Endoscopes

KARL STORZ — ENDOSKOPE

Plastic container with transparent lid and silicone telescope holders for secure fixation of rigid endoscopes during sterilization and storage. The plastic containers are suitable for steam, gas and hydrogen peroxide sterilization.

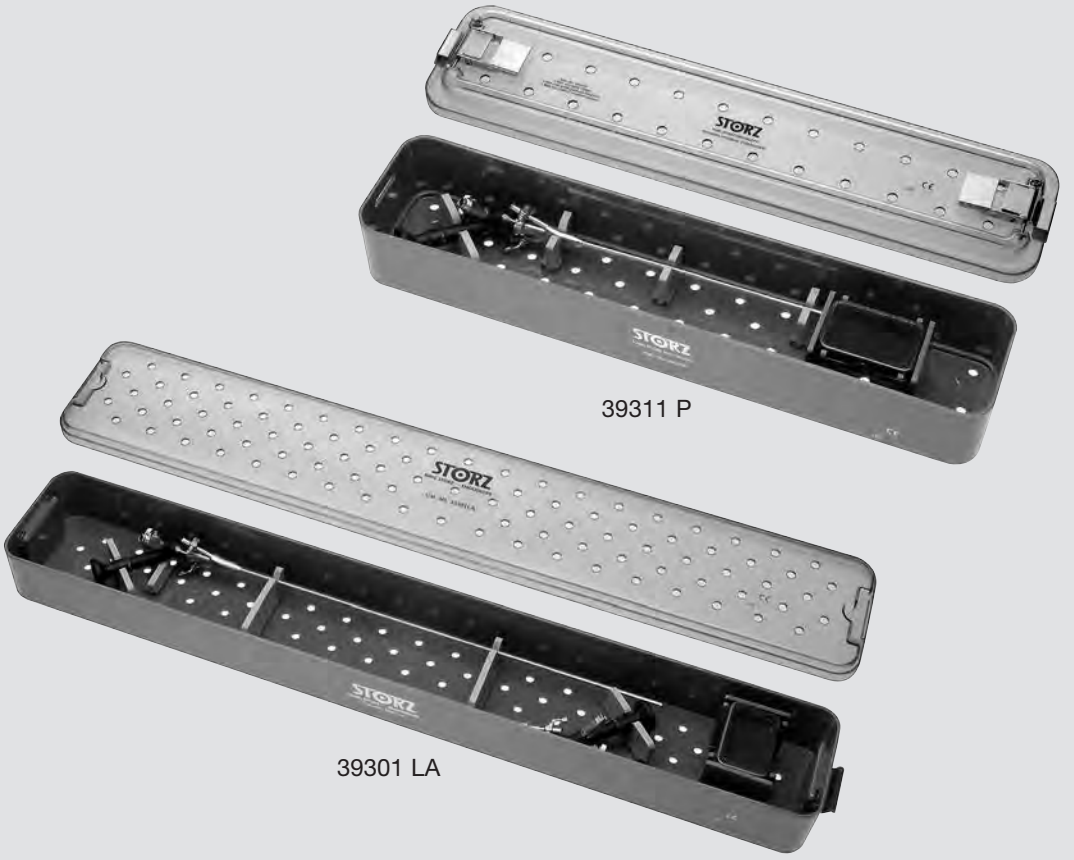
39314 G

39314 G **Plastic Container for Sterilization and Storage of Endoscopes,** with angled eyepiece, perforated, with transparent lid, with inserts for two angled telescopes of up to 10 mm, external dimensions (w x d x h): 520 x 250 x 84 mm

1-03

Please note: The instruments displayed are not included in the plastic containers.

Plastic Containers for Sterilization and Storage of Endoscopes



39311 P

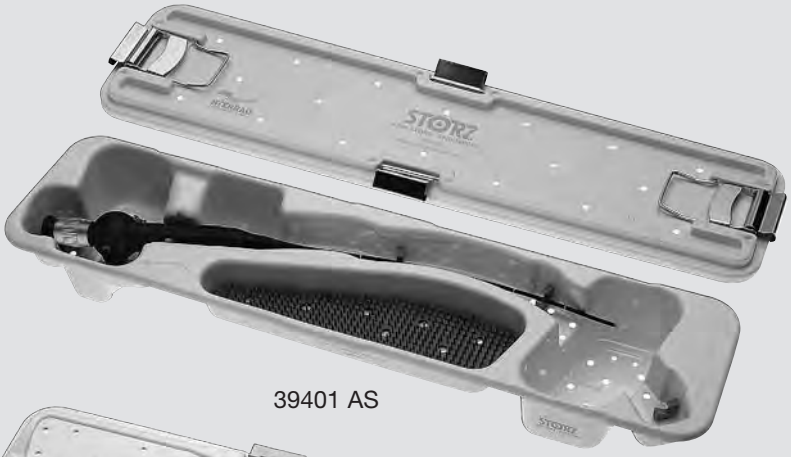
39301 LA

39311 P	**Plastic Container for Sterilization and Storage,** with silicone holders and box for small parts, for use with 1 uretero-renoscope of up to 34 cm working length, external dimensions (w x d x h): 510 x 115 x 90 mm
39301 LA	**Plastic Container for Sterilization and Storage,** with silicone holders and box for small parts, for use with 2 uretero-renoscopes with angled eyepiece of up to 45 cm working length, external dimensions (w x d x h): 812 x 113 x 82 mm

1-03$_2$

Please note: The instruments displayed are not included in the plastic containers.

Plastic Containers for Sterilization and Storage of Endoscopes



39401 AS

39402 AS

39401 AS **Plastic Container for Sterilization,** specially suited for gas and hydrogen peroxide (Sterrad®) sterilization and storage, perforated, with lid, for use with flexible endoscopes up to max. 39 cm working length, external dimensions (w x d x h): 690 x 170 x 92 mm

39402 AS **Plastic Container for Sterilization,** specially suited for gas and hydrogen peroxide (Sterrad®) sterilization and storage, perforated, with lid, for use with flexible endoscopes up to max. 95 cm working length, external dimensions (w x d x h): 550 x 260 x 92 mm

7-11

Please note:
Fiberscopes stored in these containers can only be sterilized with gas or plasma.
The instruments displayed are not included in the plastic containers.

Plastic Containers for Sterilization and Storage of Endoscopes

39403 AS

39405 AS

39403 AS **Plastic Container for Sterilization,** specially suited for gas and hydrogen peroxide (Sterrad®) sterilization and storage, perforated, with lid, for use with flexible video-cysto-, rhino- and bronchoscopes, external dimensions (w x d x h): 550 x 260 x 90 mm

39405 AS **Plastic Container for Flexible Endoscopes,** specially suited for gas and hydrogen peroxide (Sterrad®) sterilization and storage, for use with one flexible endoscope, external dimensions (w x d x h): 550 x 260 x 90 mm

Please note: The instruments displayed are not included in the plastic containers.

7-11

Plastic Containers for Sterilization and Storage of Camera Heads

39301 Z3TS

39301 ACTS **Plastic Container for Sterilization and Storage** of camera heads **IMAGE1, TRICAM® and TELECAM,** suitable for steam, gas, and hydrogen peroxide sterilization, Sterrad® compatible, external dimensions (w x d x h): 385 x 255 x 75 mm

39301 HCTS **Plastic Container for Sterilization and Storage** of **HD camera heads,** suitable for steam, gas, and hydrogen peroxide sterilization, Sterrad® compatible, external dimensions (w x d x h): 385 x 255 x 75 mm

39301 Z3TS **Plastic Container for Sterilization and Storage** of camera heads **IMAGE1 H3-Z, H3-ZA and H3-FA**, **autoclavable,** suitable for use with steam, gas and hydrogen peroxide sterilization, Sterrad® compatible, external dimensions (w x d x h): 385 x 255 x 75 mm

39301 PHTS **Plastic Container for Sterilization and Storage** of camera heads **IMAGE1 H3-P and H3-ZI, autoclavable,** suitable for use with steam, gas and hydrogen peroxide sterilization, Sterrad® compatible, external dimensions (w x d x h): 385 x 255 x 75 mm

7-11

Please note: The instruments displayed are not included in the plastic containers.

Plastic Containers for Sterilization and Storage of Instruments

KARL STORZ — ENDOSKOPE

Plastic container with transparent lid, or secure fixation of instruments during sterilization and storage.

The plastic containers may be used for sterilization with steam, gas or hydrogen peroxide sterilization.

39301 H

39301 F	**Plastic Container for Sterilization and Storage,** perforated, with transparent lid, with silicone mat, external dimensions (w x d x h): 260 x 233 x 65 mm
39301 G	**Plastic Container for Sterilization and Storage,** perforated, with transparent lid, with silicone mat, external dimensions (w x d x h): 515 x 114 x 65 mm
39301 H	**Plastic Container for Sterilization and Storage,** perforated, with transparent lid, with silicone mat, external dimensions (w x d x h): 515 x 233 x 65 mm
39301 J	**Plastic Container for Sterilization and Storage,** perforated, with transparent lid, with silicone mat, external dimensions (w x d x h): 532 x 252 x 141 mm

5-96

Plastic Containers for Sterilization and Storage of Instruments

KARL STORZ — ENDOSKOPE

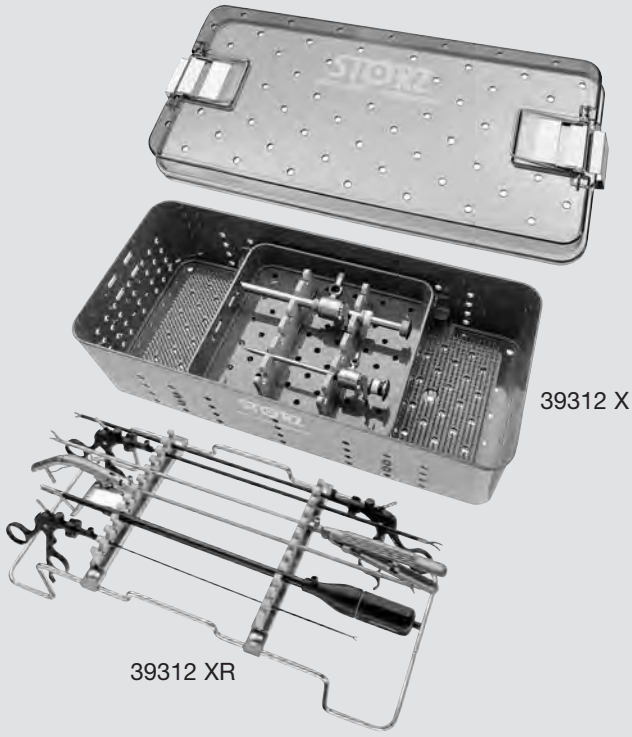
39351 J

27717 A

39351 J	**Plastic Container for Sterilization and Storage,** perforated, with transparent lid, for **two-level storage,** for use with forceps and instruments, external dimensions (w x d x h): 530 x 250 x 145 mm
27717 A	**Plastic Container for Sterilization and Storage,** perforated, with transparent lid and silicone mat, for two-level storage, external dimensions (w x d x h): 543 x 255 x 112 mm

9-013

Plastic Containers for Sterilization and Storage of Instruments



39312 X **Plastic Container for Sterilization and Storage,** with removable Instrument Rack 39312 XR and insert tray for storage of up to 12 instruments with diameter 2.5 to 10 mm and up to 6 trocars, perforated, with transparent lid, external dimensions (w x d x h): 532 x 254 x 165 mm

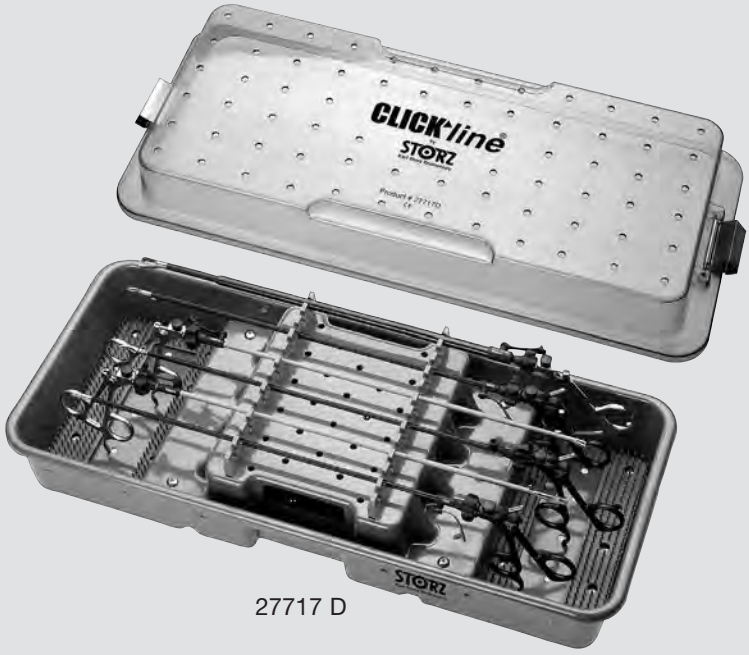
39312 XR **Instrument Rack for Storage** of up to 12 instruments with diameter 2.5 to 10 mm, including 2 bars with silicone holders

39312 B **Plastic Container for Sterilization and Storage,** perforated, with transparent lid and silicone mat, for use with up to 15 instruments with working length up to 43 cm, external dimensions (w x d x h): 680 x 325 x 155 mm

Please note: The displayed instruments are not included in the instrument rack.

9-013

Plastic Containers
for Sterilization and Storage



27717 D

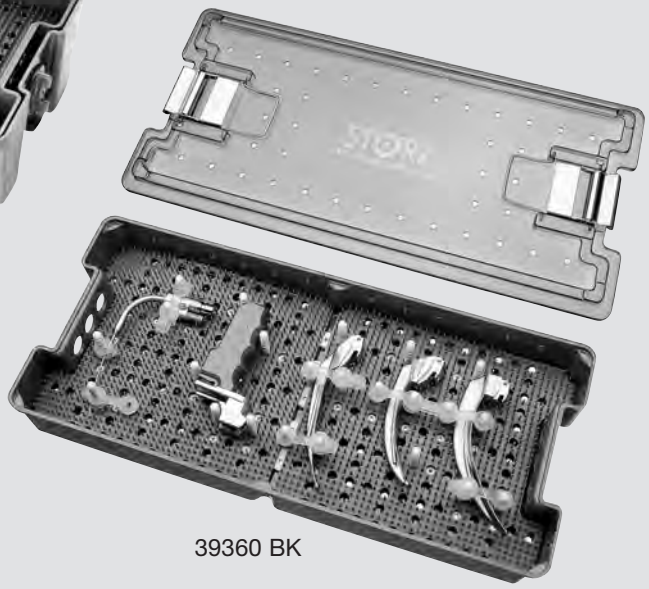
27717 D **Plastic Container for Sterilization and Storage,** perforated, with transparent lid, for use with 12 CLICK'*line*® instruments with working length up to 36 cm, external dimensions (w x d x h): 585 x 255 x 145 mm

1-03

Please note: The instruments displayed are not included in the plastic container.

Plastic Containers for Sterilization and Storage

39360 AK



39360 BK

39360 AK **Plastic Container for Sterilization and Storage of Variable Instrument Sets,** perforated, with transparent lid, with silicone mat, **two-level storage,** (1 additional insert), external dimensions (w x d x h): 545 x 260 x 115 mm

including:

2x **Snap-in Clip,** package of 12

2x **Silicone Tie-Downs,** package of 12

Tool

39360 BK **Plastic Container for Sterilization and Storage of Variable Instrument Sets,** perforated, with transparent lid, with silicone mat, **single-level storage,** (1 additional insert), external dimensions (w x d x h): 525 x 240 x 70 mm

including:

Snap-in Clip, package of 12

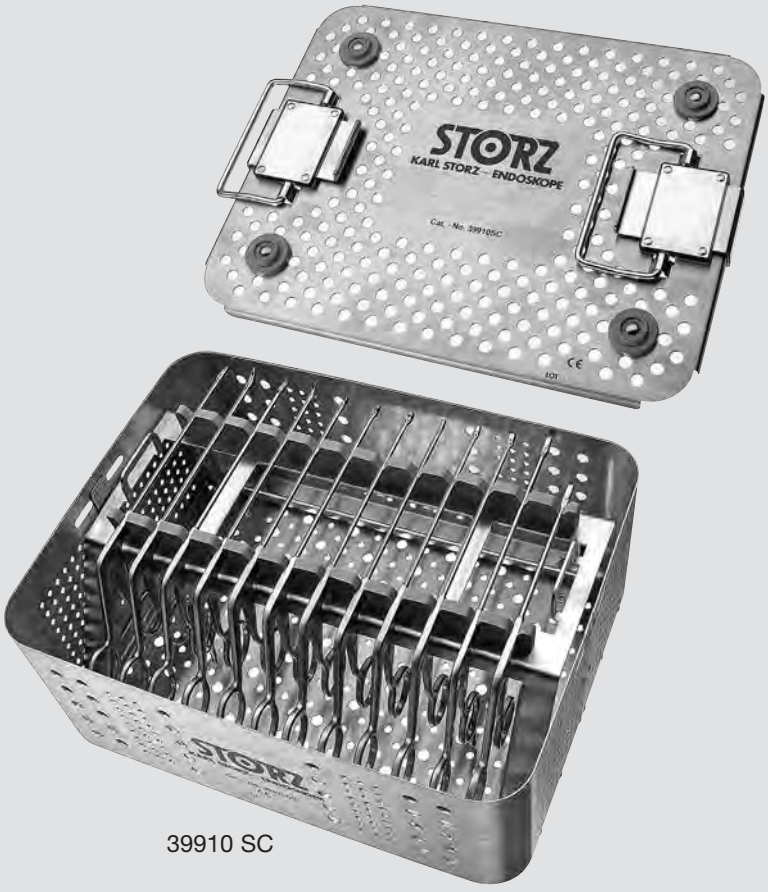
Silicone Tie-Downs, package of 12

Tool

9-013

Components see COMPONENTS, SPARE PARTS
Please note: The instruments displayed are not included in the plastic container.

Stainless Steel Tray for Sterilization and Storage of Instruments



39910 SC

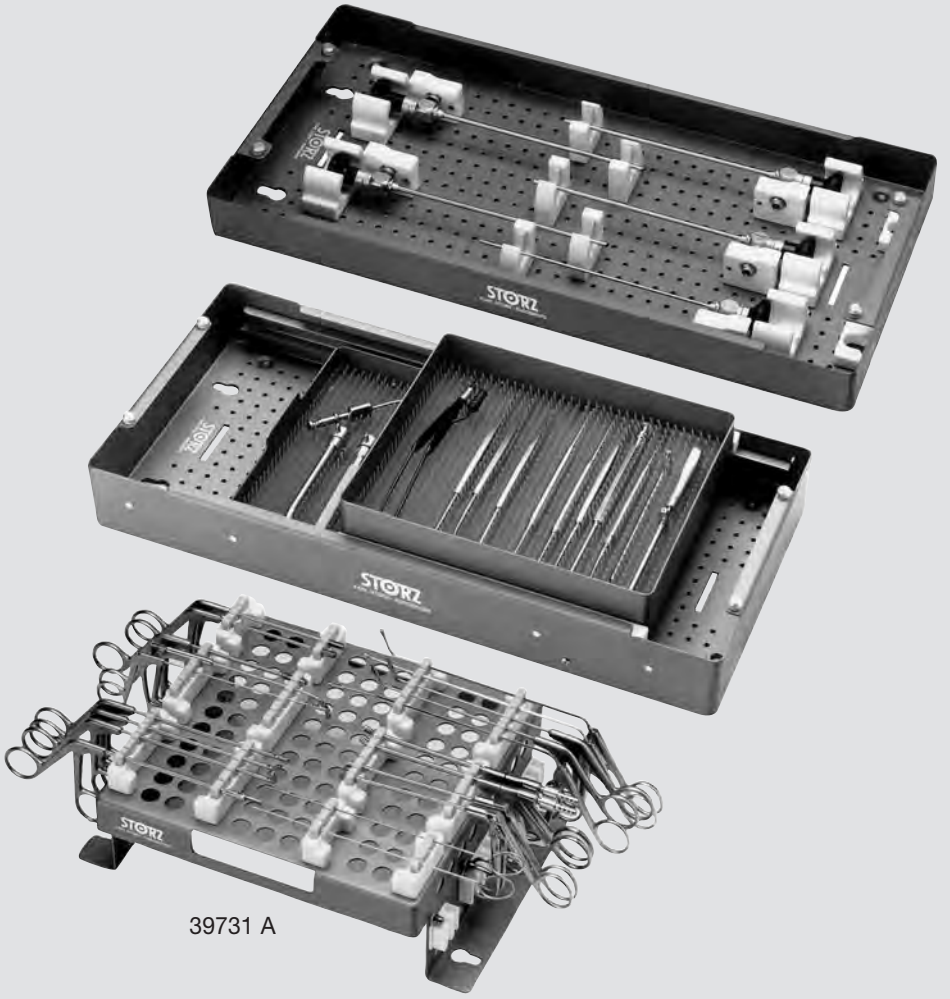
39910 SC **Stainless Steel Tray for Sterilization, Storage and Transport** of up to 12 SilCut® or RHINOFORCE® forceps, with lid, latches and handles, removable rack with double silicone holders for max. 12 instruments, external dimensions (w x d x h): 340 x 250 x 145 mm

3-07

Please note: The instruments displayed are not included in the stainless tray.

Aluminium Tray for Sterilization and Storage of Instruments

KARL STORZ — ENDOSKOPE



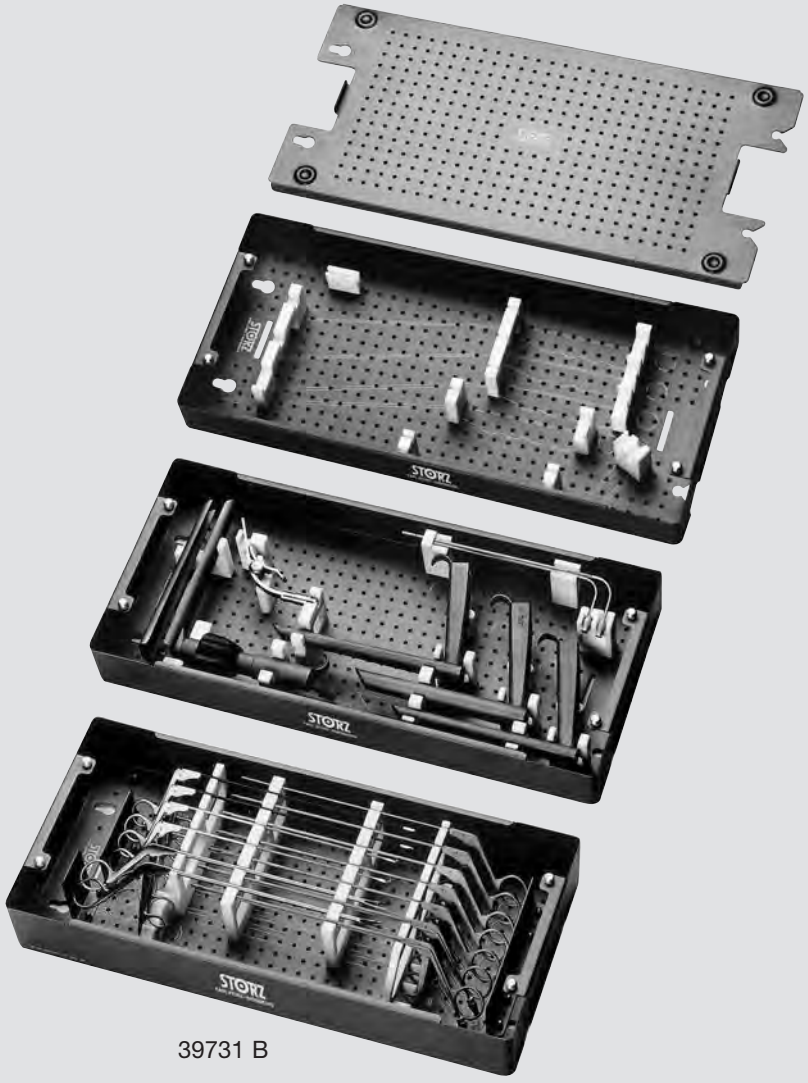
39731 A

39731 A **Aluminium Tray for Sterilization and Storage** of STAMMBERGER-**FESS instrument sets,** two-level storage, with instrument rack, external dimensions (w x d x h): 525 x 248 x 202 mm

1-03₂

Please note: The instruments displayed are not included in the aluminium tray.

Aluminium Tray for Sterilization and Storage of Instruments



39731 B

39731 B	STEINER **Aluminium Tray,** for sterilization and storage of instrument sets for laser laryngoscopy, external dimensions (w x d x h): 525 x 248 x 202 mm

1-03$_2$

Please note: The instruments displayed are not included in the aluminium tray.

Sterilization Container NEW with MicroStop® System for Sterilization and Sterile Storage

KARL STORZ — ENDOSKOPE

Special Features:

- **Cost-effective, time-saving and eco-friendly**
- **Ergonomic, standardized and stackable**
- **MicroStop® microbiological barrier with a separation efficiency of 99.99997%**
- **Secure safety lock with seal slot**

39740 A2

Sterilization Container, with MicroStop® microbiological barrier, for sterilization and sterile storage

including:

Base

Lid

Microbiological Barrier

Container	Base	Lid	Micro-biological Barrier	External Dimensions (w x d x h)	Inner Dimensions (w x d x h)
39740 A2	39740 AB2	39745 AA2	39760 A2	300 x 300 x 110 mm	262 x 267 x 88 mm
39741 A2	39741 AB2	39745 AA2	39760 A2	300 x 300 x 140 mm	262 x 267 x 113 mm
39742 A2	39742 AB2	39745 AA2	39760 A2	300 x 300 x 160 mm	262 x 267 x 138 mm
39743 A2	39743 AB2	39745 AA2	39760 A2	300 x 300 x 210 mm	262 x 267 x 186 mm

7-11

Sterilization Container NEW with MicroStop® System for Sterilization and Sterile Storage

KARL STORZ — ENDOSKOPE

Special Features:

- **Cost-effective, time-saving and eco-friendly**
- **Ergonomic, standardized and stackable**
- **MicroStop® microbiological barrier with a separation efficiency of 99.99997%**
- **Secure safety lock with seal slot**

39750 A2

Sterilization Container, with MicroStop® microbiological barrier, for sterilization and sterile storage

including:

Base

Lid

Microbiological Barrier

Container	Base	Lid	Micro-biological Barrier	External Dimensions (w x d x h)	Inner Dimensions (w x d x h)
39750 A2	39750 AB2	39755 AA2	39760 A2	600 x 300 x 110 mm	548 x 267 x 88 mm
39751 A2	39751 AB2	39755 AA2	39760 A2	600 x 300 x 140 mm	548 x 267 x 113 mm
39752 A2	39752 AB2	39755 AA2	39760 A2	600 x 300 x 160 mm	548 x 267 x 138 mm
39753 A2	39753 AB2	39755 AA2	39760 A2	600 x 300 x 210 mm	548 x 267 x 186 mm

7-11

Accessories for Sterilization Container NEW with MicroStop® System for Sterilization and Sterile Storage

KARL STORZ — ENDOSKOPE

Coding Labels

39763 B2

39763 A2	**Coding Label,** inscribed
39763 B2	**Coding Label,** blank

Color Tabs

39762 C2

Art. No.	Designation	Color
39762 A2	Color Tab	black
39762 B2	Color Tab	white
39762 C2	Color Tab	red
39762 D2	Color Tab	blue
39762 E2	Color Tab	green
39762 F2	Color Tab	yellow
39762 G2	Color Tab	violet
39762 H2	Color Tab	orange
39762 I2	Color Tab	grey

Optional Accessories

39763 E

39763 E	**Log Labels,** self-adhesive, package of 1000

39763 PB

39763 PA	**Seal,** without indicator, package of 1000
39763 PB	**Seal,** with indicator, package of 1000

7-11

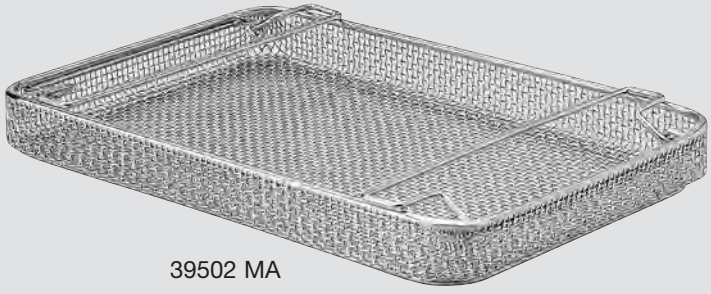
Accessories for Sterilization Container NEW with MicroStop® System for Sterilization and Sterile Storage

KARL STORZ — ENDOSKOPE

39780 A

39780 A **MiniSet Container,** with MicroStop®, for sterilization and sterile storage, external dimensions (w x d x h): 310 x 189 x 65 mm, internal dimensions (w x d x h): 283 x 177 x 40 mm
including:
Base
Lid
Microbiological Barrier, with MicroStop®

39781 A **MiniSet Container,** with MicroStop®, for sterilization and sterile storage, external dimensions (w x d x h): 310 x 189 x 80 mm, internal dimensions (w x d x h): 283 x 177 x 60 mm
including:
Base
Lid
Microbiological Barrier, with MicroStop®



39502 MA

39502 MA **Wire Tray for MiniSet Container for Cleaning, Sterilization and Storage** of instruments, external dimensions (w x d x h): 260 x 165 x 28 mm

39502 MB **Wire Tray for MiniSet Container for Cleaning, Sterilization and Storage** of instruments, external dimensions (w x d x h): 260 x 165 x 47 mm

39100 SMS **Silicone Grid Insert, "Small Diamond Grid",** blue, wide mesh, for the storage of instruments in MiniSet wire trays and MiniSet plastic sterilization containers, external dimensions: 250 x 155 mm

7-11

Components see COMPONENTS, SPARE PARTS

Accessories for Sterilization Container NEW with MicroStop® System for Sterilization and Sterile Storage

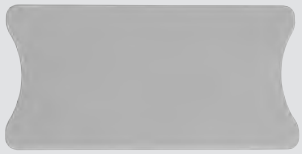
KARL STORZ — ENDOSKOPE

Coding Labels, for lids

39763 B

39763 A	**Coding Label,** inscribed
39763 B	**Coding Label,** blank

Coding Labels, for containers



39764 B

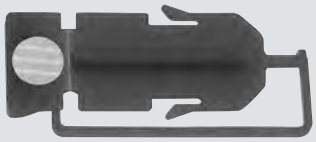
39764 A	**Coding Label,** inscribed
39764 B	**Coding Label,** blank

Coding (Logistics) Framelets, for lids

39762 A

Art. No.	Designation	Color
39762 A	Coding Framelet	black
39762 B	Coding Framelet	white
39762 C	Coding Framelet	red
39762 D	Coding Framelet	blue
39762 E	Coding Framelet	green
39762 F	Coding Framelet	yellow
39762 G	Coding Framelet	violet
39762 H	Coding Framelet	orange
39762 I	Coding Framelet	grey

Accessories



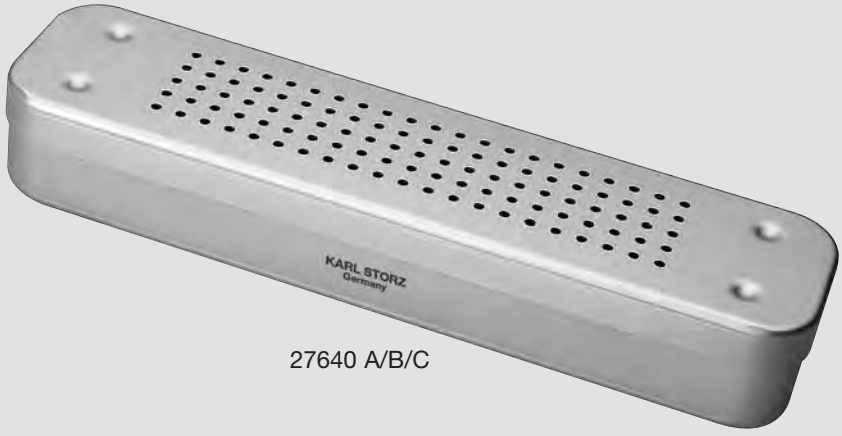
39763 PKB

39763 PKA	**Seal,** without indicator, package of 1000
39763 PKB	**Seal,** with indicator, package of 1000

7-11

Universal Aluminium Cases for HOPKINS® Telescopes

Universal cares are suitable for use in steam or gas sterilization.



27640 A/B/C

27640 A	**Aluminium Case,** with lid, for use with HOPKINS® Telescopes 27015 A/B/C/E, external dimensions (w x d x h): 405 x 73 x 55 mm
27640 B	**Aluminium Case,** with lid, for use with HOPKINS® Telescopes 27018 A/B/C, external dimensions (w x d x h): 265 x 73 x 55 mm
27640 C	**Aluminium Case,** with lid, for use with HOPKINS® Telescopes 10320 A/B/D, 12015 A, 26031 B, 24880 A, external dimensions (w x d x h): 620 x 78 x 55 mm

4-97$_2$

Please note: Before sterilization the foam insert is to be removed and the container be laid out with drapes.

Carrying Cases
for Instruments and Accessories

27677 A/B/C

27677 A	**Plastic Case,** without inserts, internal dimensions (w x d x h): 730 x 325 x 85 mm
9200030	**Case Insert,** grooved foam
27677 B	**Plastic Case,** without inserts, internal dimensions (w x d x h): 605 x 315 x 80 mm
9211580	**Case Insert,** grooved foam
27677 C	**Plastic Case,** without inserts, internal dimensions (w x d x h): 480 x 285 x 80 mm
9210560	**Case Insert,** foam material, grooved

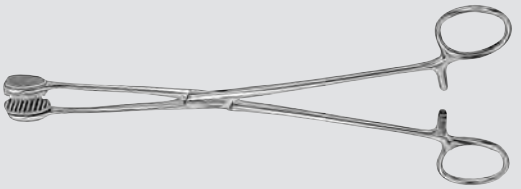
11-97

KARL STORZ — ENDOSKOPE

Grasping Forceps, Cleaning Pistol, Cleaning Tubing Set Gastro

KARL STORZ — ENDOSKOPE

Components /spare parts		Catalog page
27662	**Grasping Forceps,** with serrated rubber jaws	VET-S-CL 3



Spare parts

27662 A
Rubber Jaws Insert

Components /spare parts		Catalog page
27660 P	**Cleaning Pistol,** only, **autoclavable**	VET-S-CL 6

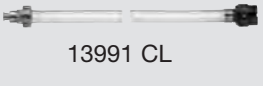
Spare parts

8021390
O-Rings, for nozzle, package of 3

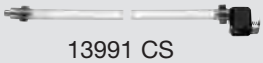
8021490
Spare Part Set, for measuring

Components /spare parts		Catalog page
13991 CK	**Cleaning Tubing Set Gastro**	VET-S-CL 8
13991 CD	**Double Valve Seal**	
13991 CL	**Leakage Tester Adaptor**	
13991 CS	**Adaptor, for aspiration**	
13991 CR	**Adaptor, air/water**	
13991 SS	I**rrigation Tube,** reusable	

13991 CD



13991 CL



13991 CS

13991 CR

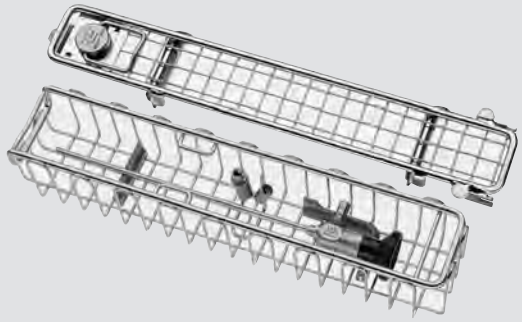
13991 SS

7-11

Wire Trays for Cleaning, Sterilization and Storage

KARL STORZ — ENDOSKOPE

Components /spare parts		Catalog page
39501 A1	**Wire Tray for Cleaning, Sterilization and Storage**	VET-S-CL 11
39501 B1	**Wire Tray for Cleaning, Sterilization and Storage**	VET-S-CL 11
39501 C	**Wire Tray for Cleaning, Sterilization and Storage**	VET-S-CL 11



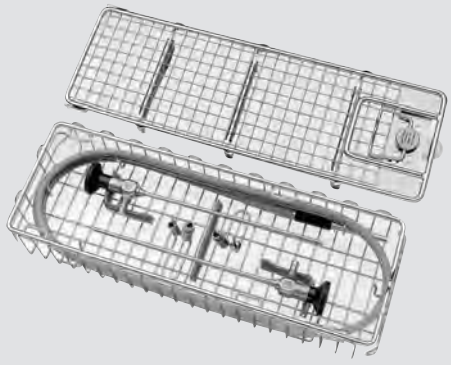
Spare parts

7981790
Locking Piece, with clamp, screw and nut

8021690
Silicone Telescope Holder, for head of telescope

8021590
Silicone Telescope Holder, straight

Components /spare parts		Catalog page
39501 A2	**Wire Tray for Cleaning, Sterilization and Storage**	VET-S-CL 12
39501 B2	**Wire Tray for Cleaning, Sterilization and Storage**	VET-S-CL 12
39501 BEC	**Wire Tray for Cleaning, Sterilization and Storage**	VET-S-CL 13
39501 CEC	**Wire Tray for Cleaning, Sterilization and Storage**	VET-S-CL 13
39501 X	**Wire Tray for Cleaning, Sterilization and Storage**	VET-S-CL 14
39501 XK	**Wire Tray for Cleaning, Sterilization and Storage**	VET-S-CL 14
39501 BR	**Wire Tray for Cleaning, Sterilization and Storage**	VET-S-CL 15
39501 ES	**Wire Tray for Cleaning, Sterilization and Storage**	VET-S-CL 16
39501 U	**Wire Tray for Cleaning, Sterilization and Storage**	VET-S-CL 17
39501 V	**Wire Tray for Cleaning, Sterilization and Storage**	VET-S-CL 17



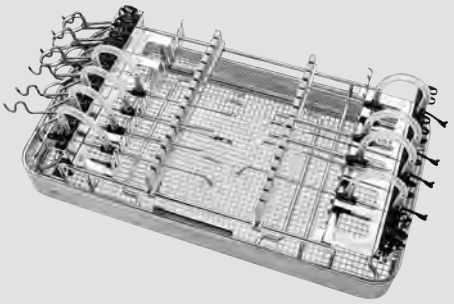
Spare parts

7981790
Locking Piece, with clamp, screw and nut

7-11

Instrument Racks and Plastic Containers for Cleaning, Sterilization and Storage

Components /spare parts		Catalog page
39219 XF	**Instrument Rack for Cleaning, Sterilization and Storage**	VET-S-CL 23
39219 XFB	**Instrument Rack for Cleaning, Sterilization and Storage**	VET-S-CL 23

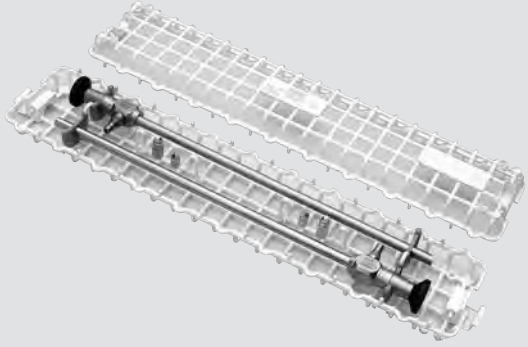


Spare parts

39219 XFS
Irrigation Tube, with two LUER-Lock tube connectors, length 140 mm

39219 XFV
Sealing Cap, package of 15, for multi-port bridge

Components /spare parts		Catalog page
39305 C1S	**Plastic Container for Cleaning, Sterilization and Storage of Telescopes**	VET-S-CL 25
39305 C2S	**Plastic Container for Cleaning, Sterilization and Storage of Telescopes**	VET-S-CL 25
39305 L1S	**Plastic Container for Cleaning, Sterilization and Storage of Telescopes**	VET-S-CL 25
39305 L2S	**Plastic Container for Cleaning, Sterilization and Storage of Telescopes**	VET-S-CL 25



Spare parts

Spare parts for 39305 C1S/C2S

39305 C1SH
Telescope Holder

39305 C2SH
Telescope Holder

Spare parts for 39305 L1S/L2S

39305 L1SH
Telescope Holder

39305 L2SH
Telescope Holder

Spare parts for 39305 C1S/C2S/L1S/L2S

39305 LS
Latch

7-11

Plastic Containers for Sterilization, Trays and Plastic Containers

KARL STORZ — ENDOSKOPE

Components /spare parts		Catalog page
39301 AS	**Plastic Container for Sterilization**	VET-S-CL 26
39301 BS	**Plastic Container for Sterilization**	VET-S-CL 26
39301 CS	**Plastic Container for Sterilization**	VET-S-CL 26
39301 D	**Plastic Container for Sterilization and Storage of Endoscopes**	VET-S-CL 26

Spare parts

Spare parts for 39301 AS/BS/CS

39301 AHS
Silicone Telescope Holder, up to diameter 5 mm

39301 CHS
Silicone Telescope Holder, up to diameter 10 mm

5911202
Oval Head Screw

39305 LS
Latch

Spare parts for 39301 D

7920690
Rod

Components /spare parts	Catalog page
Trays and Plastic Containers, diverse	–

Spare parts

27695 AE
Strips of Silicone Knobs, for cutting out individually sized pieces, external dimensions (w x d): 600 x 300 mm

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Plastic Containers for Sterilization and Storage

KARL STORZ — ENDOSKOPE

Components /spare parts		Catalog page
39301 F	**Plastic Container for Sterilization and Storage**	VET-S-CL 32
39301 G	**Plastic Container for Sterilization and Storage**	VET-S-CL 32
39301 H	**Plastic Container for Sterilization and Storage**	VET-S-CL 32
39301 J	**Plastic Container for Sterilization and Storage**	VET-S-CL 32

Spare parts

Spare parts for 39301 F

39301 FB
Lid

Spare Parts for 39301 G

39301 GB
Lid

Spare Parts for 39301 H

39301 HB
Lid

Spare Parts for 39301 J

39301 JB
Lid

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Plastic Containers for Sterilization and Storage

KARL STORZ — ENDOSKOPE

Components /spare parts — Catalog page

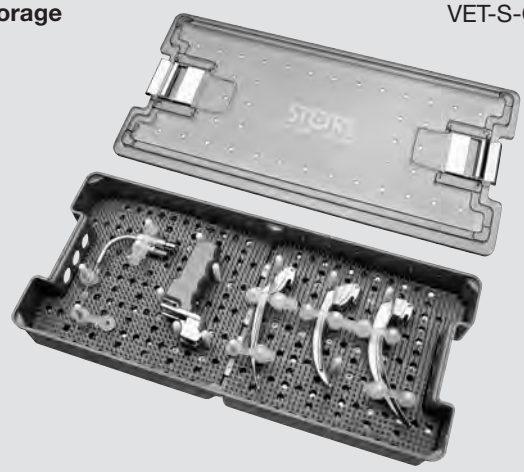
39360 AK **Plastic Container for Sterilization and Storage of Variable Instrument Sets** — VET-S-CL 36

39360 AP **Snap-in Clip,** package of 12
39360 AS **Silicone Tie-Downs,** package of 12
39360 AR **Tool**

Components /spare parts — Catalog page

39360 BK **Plastic Container for Sterilization and Storage of Variable Instrument Sets** — VET-S-CL 36

39360 AP **Snap-in Clip,** package of 12
39360 AS **Silicone Tie-Downs,** package of 12
39360 AR **Tool**



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Sterilization Containers with MicroStop®

KARL STORZ — ENDOSKOPE

Components /spare parts		Catalog page
39740 A2	**Sterilization Container,** with MicroStop®	VET-S-CL 40
39741 A2	**Sterilization Container,** with MicroStop®	VET-S-CL 40
39742 A2	**Sterilization Container,** with MicroStop®	VET-S-CL 40
39743 A2	**Sterilization Container,** with MicroStop®	VET-S-CL 40

Spare parts

39760 A2
MicroStop® Microbiological Barrier

39745 AD
Silicone Seal, for lid 300 x 300

Components /spare parts		Catalog page
39750 A2	**Sterilization Container,** with MicroStop®	VET-S-CL 41
39751 A2	**Sterilization Container,** with MicroStop®	VET-S-CL 41
39752 A2	**Sterilization Container,** with MicroStop®	VET-S-CL 41
39753 A2	**Sterilization Container,** with MicroStop®	VET-S-CL 41

Spare parts

39760 A2
MicroStop® Microbiological Barrier

39755 X
Centering, for lid seal in container 600 x 300

39755 AD
Silicone Sealing Ring, for lid 600 x 300

7-11

MiniSet Containers with MicroStop®

KARL STORZ — ENDOSKOPE

Components /spare parts		Catalog page
39780 A	**MiniSet Container,** with MicroStop®	VET-S-CL 43
39780 AB	**Base**	
39785 AA	**Lid**	
39760 A	**Microbiological Barrier,** with MicroStop®	
39781 A	**MiniSet-Container,** with MicroStop®	
39781 AB	**Base**	
39785 AA	**Lid**	
39760 A	**Microbiological Barrier,** with MicroStop®	

Spare parts

39760 A2
MicroStop® Microbiological Barrier

39785 AD
Silicone Seal

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COMPONENTS
SPARE PARTS

Introduction

The chapter “Components / Spare Parts” contains detailed information on KARL STORZ instruments.

For easy location and reference, an index is available which lists the order number of the spare parts as well as those of the entire instrument, set or unit.

Hotline

Queries concerning products, exchange, maintenance and cleaning can be addressed to the KARL STORZ EP1 Hotline: 07461/708-980, from Monday to Thursday from 7-18 h and Friday from 7-17 h.

For example:

Components / Spare parts		Catalog page
67260 OSA	**Veterinary Otoscope Set**	3
67260 AA	**Otoscope**	
67262 S	**Stopcock Attachment**	

Components / Spare parts		Catalog page
67071 XS	**Myringotomy Needle**	4
67071 S	**Flexible Needle,** outer diameter 0.7 mm	
67479 S	**Outer Tube,** 1.5 mm	

Components / Spare parts		Catalog page
67159 L	**Polypectomy Snare**	4, 138
67159 LA	**Handle**	
67159 LB	**Tube**	
67159 LC	**Snare**	
67159 LD	**Adaptor**	

Spare parts assigned to instrument with catalog page reference and order numbers for individual components/spare parts

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Suction Valve, Air/Water Valve, Water Bottle	SP 8
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Protection Tubes, Veterinary Otoscope Set, Myringotomy Needle, Polypectomy Snare

KARL STORZ — ENDOSKOPE

Components / Spare parts		Catalog page
723750 A	**Protection Tube,** for HOPKINS® telescopes with length of 6 – 11 cm	–

Components / Spare parts		Catalog page
723750 B	**Protection Tube,** for use with HOPKINS® telescopes with length 18 cm	–

Components / Spare parts		Catalog page
723750 E	**Protection Tube,** for HOPKINS® II telescope with length 30 cm	–

Components / Spare parts		Catalog page
723750 H	**Protection Tube,** for use with HOPKINS® telescopes up to outer diameter 4 mm and working length 44 cm	–

Components / Spare parts		Catalog page
67260 OSA	**Veterinary Otoscope Set**	3
67260 AA	**Otoscope**	
67262 S	**Stopcock Attachment**	

Components / Spare parts		Catalog page
67071 XS	**Myringotomy Needle**	4
67071 S	**Flexible Needle,** outer diameter 0.7 mm	
67479 S	**Outer Tube,** 1.5 mm	

Components / Spare parts		Catalog page
67159 L	**Polypectomy Snare**	4, 138
67159 LA	**Handle**	
67159 LB	**Tube**	
67159 LC	**Snare**	
67159 LD	**Adaptor**	

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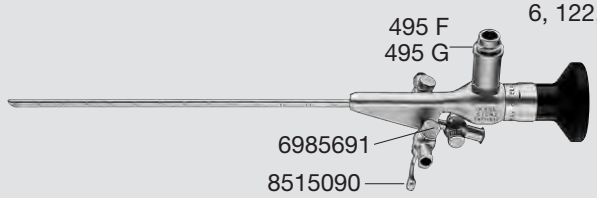
Operating Telescope 30º, Protection and Examination Sheath

KARL STORZ — ENDOSKOPE

Components / Spare Parts — Catalog page

67030 BA **Operating Telescope 30º** — 6, 122, 136



Spare Parts

495 F
Receptacle,
diameter 9 mm, for Wolf fiber optic light cable

6985691
Spring Cap

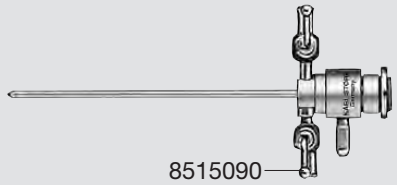
495 G
Screw Base,
for KARL STORZ fiber optic light cable and Olympus/Winter & Ibe

8515090
Stopcock

6573990
Sealing Cap, diameter 0.8 mm

Components / Spare Parts — Catalog page

61029 C **Protection and Examination Sheath** — 6, 137



Spare Parts

6985691
Spring Cap

8515090
Stopcock

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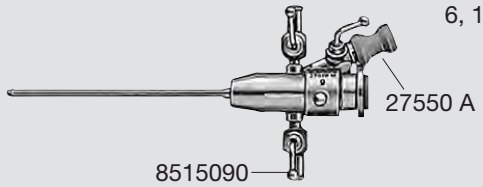
Operating Sheath, Sheaths, Rubber Insufflation Bulb, Cytology Brush

KARL STORZ — ENDOSKOPE

Components / Spare Parts		Catalog page
61029 D	**Operating Sheath**	6, 137



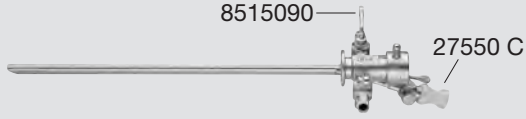
Spare Parts

27550 A
Sealing Cap, drill hole diameter 0.8 mm

8515090
Stopcock

6985691
Spring Cap

Components / Spare Parts		Catalog page
67065 C	**Sheath**	7, 122
67065 CV	**Sheath**	137



Spare Parts

27550 C
Sealing Cap, drill hole diameter 1.2 mm

8515090
Stopcock

6985691
Spring Cap

Components / Spare parts		Catalog page
40924	**Rubber Insufflation Bulb**	17
40924 B	**Rubber Bulb**	
40924 S	**Rubber Tube**	

Components / Spare parts		Catalog page
60007 BL	**Cytology Brush**	28
60007 EL	**Brush**	
60007 SL	**Outer Tube**	
13266 H	**Handle**	

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Components / Spare Parts	Catalog page
13242 XL **Leakage Tester**	22, 26-27

Spare Parts

5500735
Silicone Tube

5907900
O-Ring

Components / Spare Parts	Catalog page
13242 LX **Leakage Tester**	24, 32

Spare Parts

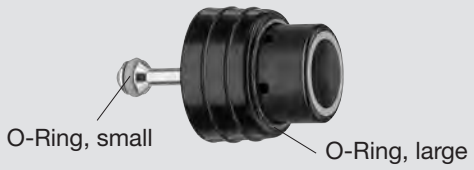
5500735
Silicone Tube

5936400
O-Ring, Silicone, red

Suction Valve, Air/Water Valve, Water Bottle

KARL STORZ — ENDOSKOPE

Components / Spare Parts		Catalog page
13991 LV	**Suction Valve**	32

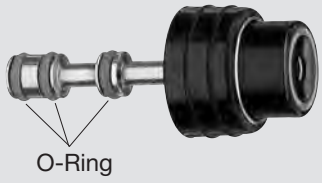


Spare Parts

5925600
O-Ring, for suction valve, large, red, 2.5 x 1.5 mm

5925300
O-Ring, for suction valve, small, red, 2 x 1.5 mm

Components / Spare Parts		Catalog page
13991 SV	**Air/Water Valve**	32
13991 SSV	**Air/Water Valve**	32



Spare Parts

5925900
O-Ring, red, 3.1 x 1.6 mm

Components / Spare Parts		Catalog page
13992 BS	**Water Bottle**	33
90100043	**Bottle Cap**	
20100055	**Irrigation Bottle**	

Spare Parts

13991 SW
Irrigation Adaptor, for water bottle

5934400
O-Ring, water bottle seal, 6.1 x 1.6 mm

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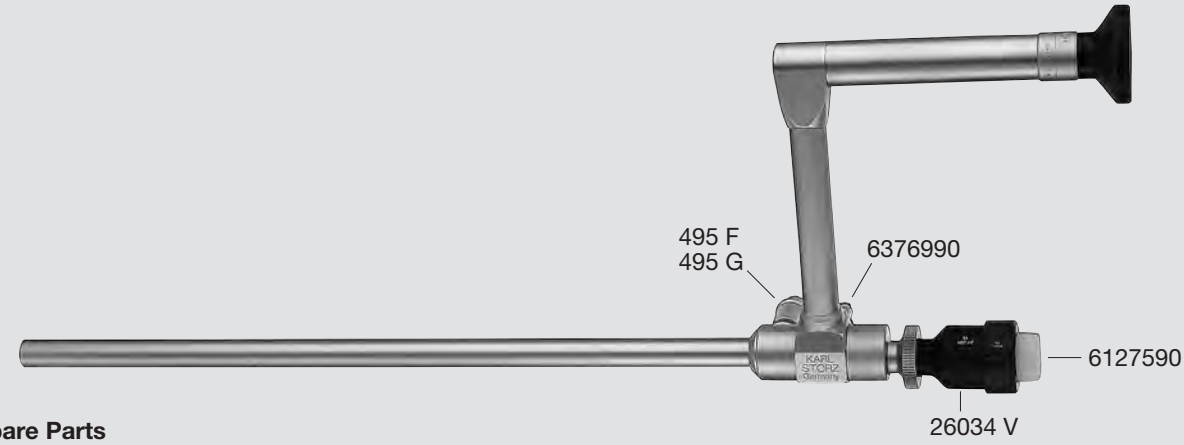
HOPKINS® Telescope

Components / Spare Parts	Catalog page
26034 AAV HOPKINS® Straight Forward Telescope 0°	52, 87



Spare Parts

26034 V
Adaptor, for working channel, for use with thoracoscopes diameter 10 mm

6376990
Stopcock, for irrigation connector

495 F
Receptacle,
diameter 9 mm, for Wolf fiber optic light cable

6985691
Spring Cap

495 G
Screw Base,
for KARL STORZ fiber optic light cable and Olympus/Winter & Ibe

7720590
Silicone Leaflet Washer

6127590
Sealing Cap, (50/4)

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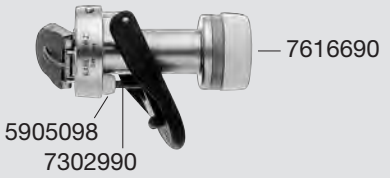
Multifunctional Valves

Components / Spare Parts — Catalog page

30103 M1 **Multifunctional Valve** — 56, 61



Spare Parts

5905098
Sealing Cap, small

7302990
Tappet

7616690
Sealing Cap, (60/10)

Components / Spare Parts — Catalog page

30160 M1 **Multifunctional Valve** — 58, 63

Spare Parts

5905098
Sealing Cap, small

7080690
Tappet

6127590
Sealing Cap, (50/4)

Components / Spare Parts — Catalog page

30108 M1 **Multifunctional Valve** — 56, 60

Spare Parts

5905098
Sealing Cap, small

7415690
Tappet

7416090
Sealing Cap, (60/13)

1-12

Automatic Valves

Components / Spare Parts — Catalog page

30117 A1 **Automatic Valve** — 59

Spare Parts

6089590
Seal, mushroom-shaped

6127090
Sealing Cap, olive, (40/3)

Components / Spare Parts — Catalog page

30103 A1 **Automatic Valve** — 61

Spare Parts

7616690
Sealing Cap, (60/10)

Components / Spare Parts — Catalog page

30160 A1 **Automatic Valve** — 63

Spare Parts

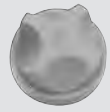
6127590
Sealing Cap, (50/4)

Components / Spare Parts — Catalog page

30103 L1 **Automatic Valve** — 56
30123 L1 **Automatic Valve** — 62

Spare Parts

7616690
Sealing Cap, (60/10)



7962190
Silicone Leaflet Washer, large

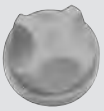
1-12

Automatic Valves

Components / Spare Parts		Catalog page
30120 L1	**Automatic Valve**	57, 65
30160 L1	**Automatic Valve**	64

Spare Parts

6127590
Sealing Cap, (50/4)

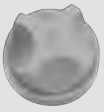


7720590
Silicone Leaflet Washer

Components / Spare Parts		Catalog page
30117 L1	**Automatic Valve**	68
30114 L1	**Automatic Valve**	68

Spare Parts

6127390
Sealing Cap, (50/2.6)

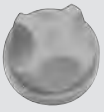


7720590
Silicone Leaflet Washer

Components / Spare Parts		Catalog page
11603 L1	**Automatic Valve**	69

Spare Parts

6127290
Sealing Cap, (50/2.2)



7720590
Silicone Leaflet Washer

1-12

Cannulas

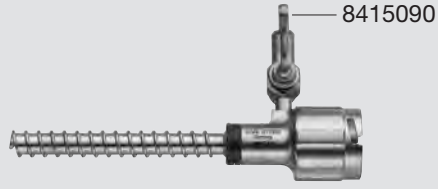
Components / Spare Parts		Catalog page
30103 T5	**Cannula**	56
30108 T4	**Cannula**	56
30120 T9	**Cannula**	57
30160 T4	**Cannula**	58
30160 T5	**Cannula**	58

Spare Parts

6985691
Spring Cap

8458190
Stopcock

Components / Spare Parts		Catalog page
30117 T2	**Cannula**	59



Spare Parts

6985691
Spring Cap

8415090
Stopcock

Components / Spare Parts		Catalog page
30103 H1	**Cannula**	61
30103 H2	**Cannula**	61
30108 H2	**Cannula**	60
30160 H1	**Cannula**	63
30160 H2	**Cannula**	63

Spare Parts

6985691
Spring Cap

8458190
Stopcock

1-12

Cannulas, Ribbed Cones

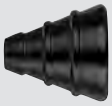
Components / Spare Parts		Catalog page
30160 G1	**Cannula**	64
30160 G2	**Cannula**	64
30160 G3	**Cannula**	64
30117 G4	**Cannula**	68
62114 G1	**Cannula**	68
62603 G1	**Cannula**	69

Spare Parts

29100
Plug, for LUER-Lock connector for cleaning, black, autoclavable, package of 10

Components / Spare Parts		Catalog page
30160 C3	**Ribbed Cone**	66

Spare Parts

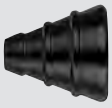


8464790
Cone

6127690
Sealing Cap, (50/5)

Components / Spare Parts		Catalog page
30103 C3	**Ribbed Cone**	66

Spare Parts



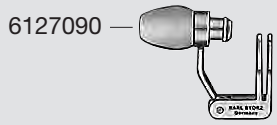
8407390
Cone

7391190
Sealing Cap, (60/14)

1-12

Reducers

Components / Spare Parts	Catalog page
62141 AA **Reducer**	70



Spare Parts

6127090
Sealing Cap, olive, (40/3)

Components / Spare Parts	Catalog page
62141 DB **Reducer**	70
30141 HB **Reducer**	70

Spare Parts

6127590
Sealing Cap, (50/4)

Components / Spare Parts	Catalog page
30160 RE **Reducer**	70

Spare Parts

6127590
Sealing Cap, (50/4)

7720590
Silicone Leaflet Washer

6127090
Sealing Cap, olive, (40/3)

1-12

Reducer, Thread Sleeve

KARL STORZ — ENDOSKOPE

Components / Spare Parts — Catalog page

30103 RE **Reducer** — 70

Spare Parts

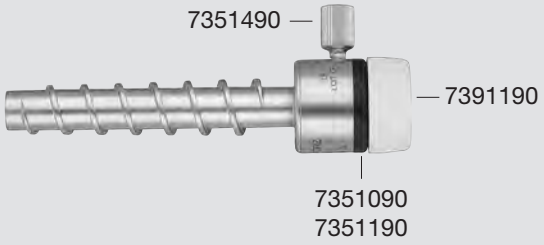
6127590
Sealing Cap, (50/4)

7962190
Silicone Leaflet Washer, large

7228790
Sealing Cap, (60/11)

Components / Spare Parts — Catalog page

30103 S **Thread Sleeve** — 70



Spare Parts

7391190
Sealing Cap, (60/14)

7351090
Metal Inner Ring

7351190
Plastic Inner Ring

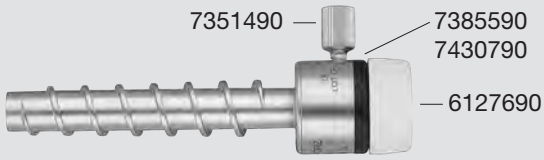
7351490
Knurled Screw

1-12

Thread Sleeve, Distance Holders

Components / Spare Parts — Catalog page

30160 S **Thread Sleeve** — 70



Spare Parts

6127690
Sealing Cap, (50/5)

7385590
Metal Inner Ring

7430790
Plastic Inner Ring

7351490
Knurled Screw

Components / Spare Parts — Catalog page

30103 D **Distance Holder** — 70

Spare Parts

7351090
Metal Inner Ring

7351490
Knurled Screw

7351190
Plastic Inner Ring

Components / Spare Parts — Catalog page

30160 D **Distance Holder** — 70

Spare Parts

7385590
Metal Inner Ring

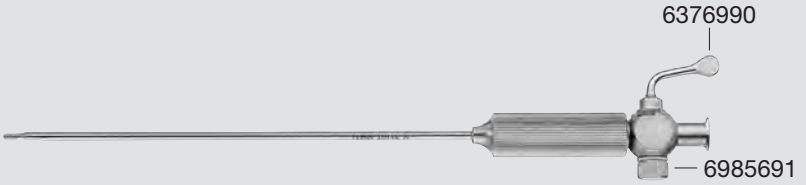
7351490
Knurled Screw

7430790
Plastic Inner Ring

1-12

VERESS **Pneumoperitoneum Needle, Outer Sheaths**

Components / Spare Parts		Catalog page
62120 J	VERESS **Pneumoperitoneum Needle**	69, 85, 87, 88, U 10



Spare Parts

6985691
Spring Cap

6376990
Stopcock, for irrigation connector

Components / Spare Parts		Catalog page
33300	CLICK*line*® **Metal Outer Sheath,** insulated	74
33400	CLICK*line*® **Metal Outer Sheath,** insulated	74

Spare Parts

29100
Plug, for LUER-Lock connector for cleaning, black, autoclavable, package of 10

7909890
Halfround Plate

7944790
Silicone Ring

Components / Spare Parts		Catalog page
33500	CLICK*line*® **Metal Outer Sheath,** insulated	78

Spare Parts

29100
Plug, for LUER-Lock connector for cleaning, black, autoclavable, package of 10

7909890
Halfround Plate

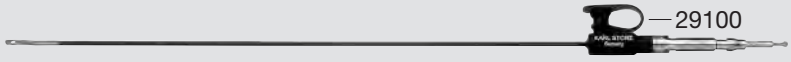
7944790
Silicone Ring

1-12

Outer Sheaths, DUVAL Grasping Forceps, Fan Retractors

KARL STORZ — ENDOSKOPE

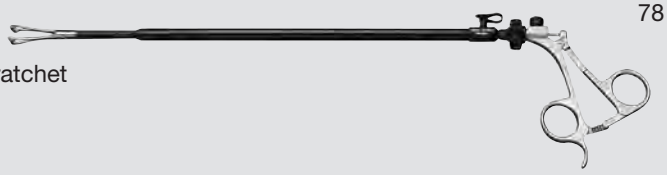
Components / Spare Parts		Catalog page
30310 MWS	CLICK*line*® **Outer Sheath with Scissors Insert**	77
30310 DBS	CLICK*line*® BLAKESLEY **Outer Sheath with Forceps Insert**	77
30310 MDS	CLICK*line*® KELLY **Outer Sheath with Forceps Insert**	77
30310 ULS	CLICK*line*® REDDICK-OLSEN **Outer Sheath with Forceps Insert**	77



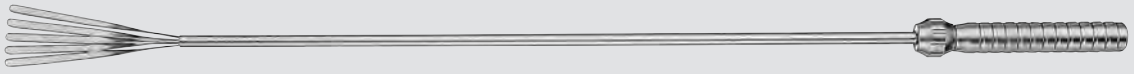
Spare Parts

29100
Plug, for LUER-Lock connector for cleaning, black, autoclavable, package of 10

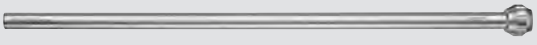
Components / Spare parts		Catalog page
33533 DU	CLICK*line*® DUVAL **Grasping Forceps**	78
33133	**Metal Handle,** with hemostat style ratchet	
33500	**Outer Sheath,** insulated	
33510 DU	**Forceps Insert**	



Components / Spare Parts		Catalog page
30623 F	**Fan Retractor**	78



Spare Parts



6681391
Outer Sheath

Components / Spare Parts		Catalog page
30623 FP	**Fan Retractor**	78

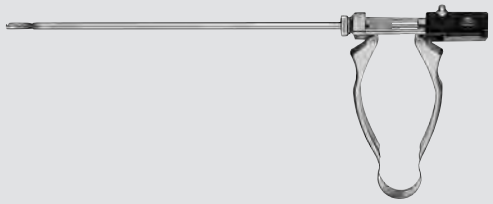
Spare Parts

6681291
Outer Sheath

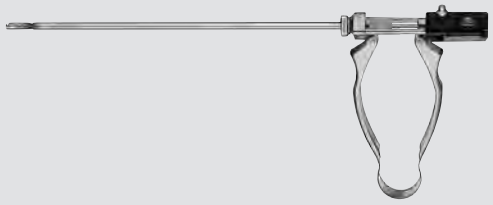
1-12

TAKE APART® Bipolar Forceps

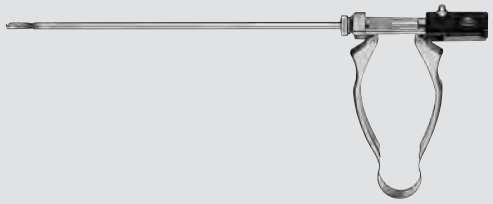
Components / Spare parts		Catalog page
66176 HA	**TAKE-APART® Bipolar Coagulating Forceps**	79, 86
26196 HR	**Handle**	
26176 HS	**Outer Sheath**	
26176 HT	**Forceps Insert**	



Components / Spare parts		Catalog page
66176 HB	**TAKE-APART® Bipolar Micro Forceps**	79
26196 HR	**Handle**	
26176 HS	**Outer Sheath**	
26176 HU	**Forceps Insert**	



Components / Spare parts		Catalog page
66176 HL	**TAKE-APART® Bipolar Coagulating Forceps**	79
26196 HR	**Handle**	
26176 HS	**Outer Sheath**	
26176 HX	**Forceps Insert**	



Components / Spare parts		Catalog page
26196 HR	**Bipolar Spring Handle**	79

Spare Parts

6875990
Sealing Cap,
diameter 2.6 mm

1-12

TAKE APART® Bipolar Forceps, Scissors

KARL STORZ — ENDOSKOPE

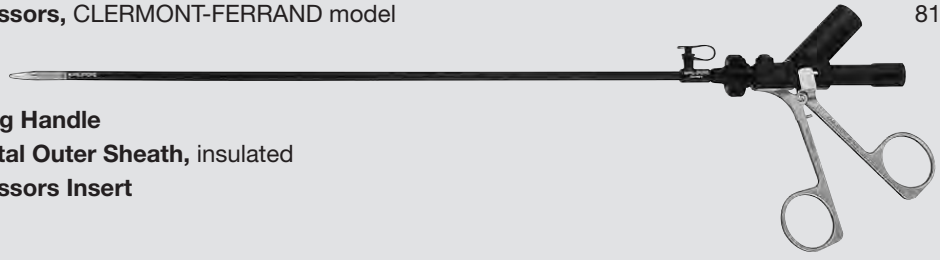
Components / Spare parts		Catalog page
26184 HCS	**TAKE-APART® Bipolar Coagulating Forceps**	80, 88
26184 HM	**Bipolar Ring Handle**	
26184 HSS	**Outer Sheath**	
26184 HVS	**Forceps Insert**	

Components / Spare Parts		Catalog page
26184 HM	**TAKE-APART® Bipolar Ring Handle**	80, 88

Spare Parts

7072390
Sealing Cap,
diameter 1.8 mm

Components / Spare parts		Catalog page
38321 MZ	**RoBi® Scissors,** CLERMONT-FERRAND model	81
38121	**RoBi® Ring Handle**	
38300	**RoBi® Metal Outer Sheath,** insulated	
38310 MZ	**RoBi® Scissors Insert**	



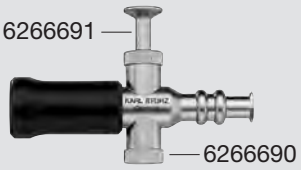
Components / Spare Parts		Catalog page
38300	**RoBi® Metal Outer Sheath,** insulated	81

Spare Parts

29100
Plug, for LUER-Lock connector for cleaning, black, autoclavable, package of 10

1-12

Components / Spare Parts	Catalog page
30804 Handle with Trumpet Valve	90



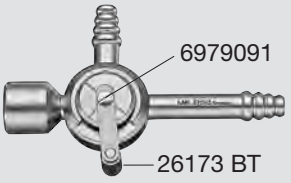
Spare Parts

5905610
Spring

6266690
Knurled Cap

6266691
Piston

Components / Spare Parts	Catalog page
30805 Handle with Two-Way Stopcock	90



Spare Parts

26173 BT
Stopcock

6979091
Spring Cap

1-12

Suction and Irrigation Tube, Arthroscope Sheaths

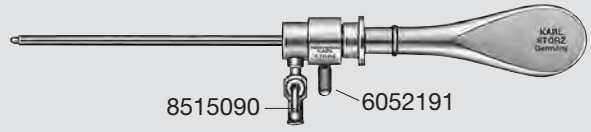
Components / Spare Parts		Catalog page
26173 BN	**Suction and Irrigation Tube**	78, U 18

Spare Parts

26173 BT
Stopcock

6353591
Spring Cap

Components / Spare Parts		Catalog page
64302 BN	**High-Flow Arthroscope Sheath**	96
28306 BN	**High-Flow Arthroscope Sheath**	96
64303 BN	**High-Flow Arthroscope Sheath**	98
64147 BN	**Arthroscope Sheath**	102



Spare Parts

6052191
Locking Lever, red

8515090
Stopcock

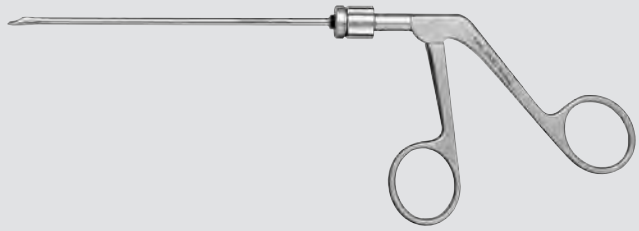
6985691
Spring Cap

1-12

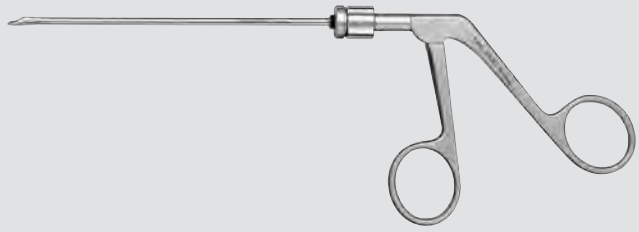
ARTHROFORCE® III TAKE-APART® Forceps and Scissors

KARL STORZ — ENDOSKOPE

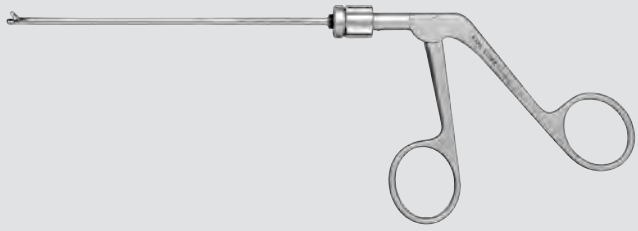
Components / Spare parts		Catalog page
64168 P	**ARTHROFORCE® III TAKE-APART® Forceps**	106
64169 A	**Handle,** without ratchet	
64068 P	**Working Attachment**	



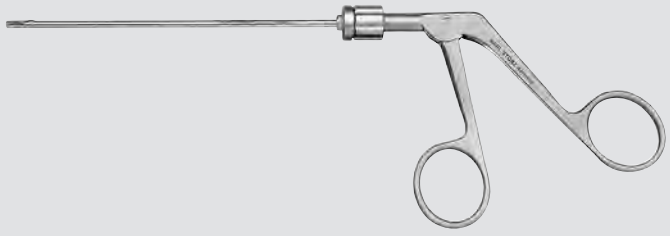
Components / Spare parts		Catalog page
64166 A	BLAKESLEY **ARTHROFORCE® III TAKE-APART® Forceps**	106
64169 A	**Handle,** without ratchet	
64066 A	**Working Attachment**	



Components / Spare parts		Catalog page
64168 B	**ARTHROFORCE® III TAKE-APART® Scissors**	106
64169 A	**Handle,** without ratchet	
64068 B	**Working Attachment**	



Components / Spare parts		Catalog page
64169 L	**ARTHROFORCE® III TAKE-APART® Grasping Forceps**	107
64169 A	**Handle,** without ratchet	
64069 L	**Working Attachment**	

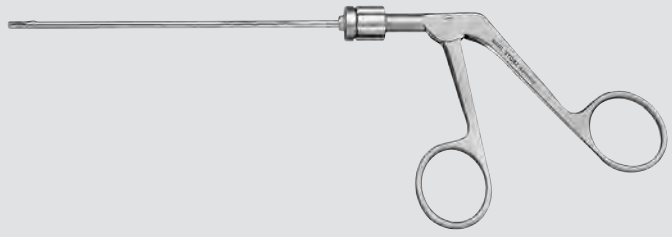


1-12

ARTHROFORCE® III TAKE-APART® Forceps

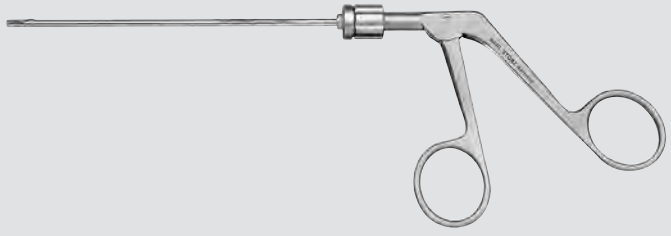
Components / Spare parts		Catalog page
64169 LS	**ARTHROFORCE® III TAKE-APART® Grasping Forceps**	107
64169 AS	**Handle,** with ratchet	
64069 L	**Working Attachment**	

Components / Spare parts		Catalog page
64169 G	**ARTHROFORCE® III TAKE-APART® Grasping Forceps**	107
64169 A	**Handle,** without ratchet	
64069 G	**Working Attachment**	



Components / Spare parts		Catalog page
64169 GS	**ARTHROFORCE® III TAKE-APART® Grasping Forceps**	107
64169 AS	**Handle,** with ratchet	
64069 G	**Working Attachment**	

Components / Spare parts		Catalog page
64183 L	**ARTHROFORCE® III TAKE-APART® Grasping Forceps**	108
64169 A	**Handle,** without ratchet	
28083 L	**Working Attachment**	



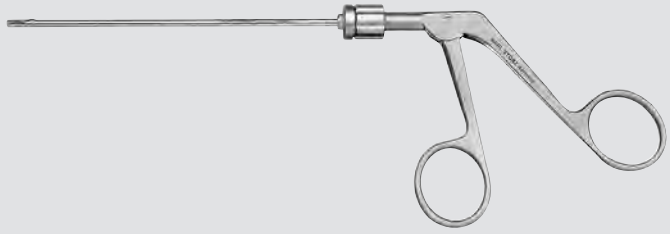
1-12

ARTHROFORCE® III TAKE-APART® Forceps

KARL STORZ — ENDOSKOPE

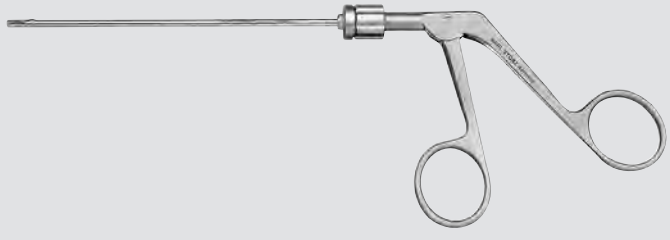
Components / Spare parts		Catalog page
64183 LS	**ARTHROFORCE® III TAKE-APART® Grasping Forceps**	108
64169 AS	**Handle,** with ratchet	
28083 L	**Working Attachment**	

Components / Spare parts		Catalog page
64183 G	**ARTHROFORCE® III TAKE-APART® Grasping Forceps**	108
64169 A	**Handle,** without ratchet	
28083 G	**Working Attachment**	

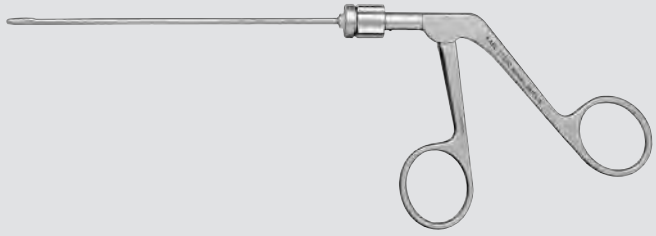


Components / Spare parts		Catalog page
64183 GS	**ARTHROFORCE® III TAKE-APART® Grasping Forceps**	108
64169 AS	**Handle,** with ratchet	
28083 G	**Working Attachment**	

Components / Spare parts		Catalog page
64183 P	**ARTHROFORCE® III TAKE-APART® Forceps**	108
64169 A	**Handle,** without ratchet	
64083 P	**Working Insert**	



Components / Spare parts		Catalog page
64167 A	BLAKESLEY **ARTHROFORCE® III TAKE-APART® Forceps**	109
64169 A	**Handle,** without ratchet	
64067 A	**Working Attachment**	



1-12

Knife, Trocars

Components / Spare Parts — Catalog page

28147 R **Knife** — 112

Spare Parts

28147 RM
Knife Attachment,
backward cutting

7342490
Cap

5903010
Spring

Components / Spare parts — Catalog page

64527 S **Hand Burr** — 113

64527 **Hand Burr**
64530 **Hand Burr Sleeve**

Components / Spare parts — Catalog page

64535 S **Hand Burr** — 113

64535 **Hand Burr**
64530 **Hand Burr Sleeve**

Components / Spare parts — Catalog page

64302 X **Trocar** — 111

Spare Parts

6126990
Sealing Cap,
(40/1.5)

Components / Spare parts — Catalog page

64169 X **Trocar** — 114

Spare Parts

6127090
Sealing Cap, olive, (40/3)

Components / Spare parts — Catalog page

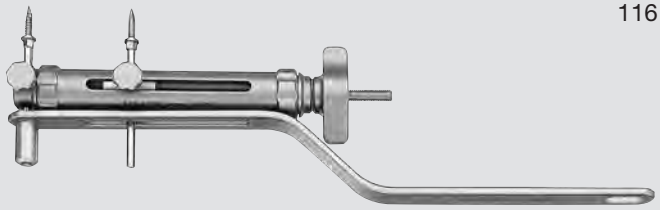
64183 X **Trocar** — 114

Spare Parts

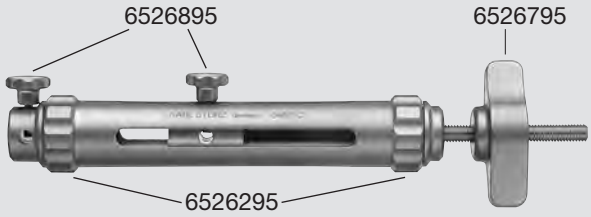
8259290
Sealing Cap

1-12

Components / Spare parts		Catalog page
64820 LSD	LEIPZIG **Stifle Distractor**	116
64821 C	**Distractor**	
64821 S	**Fixation Screw,** package of 6	
64821 H	**Lever Arm**	
64821 D	**Screwdriver**	



Components / Spare parts		Catalog page
64821 C	**Distractor**	116



Spare Parts

6526295
Swivel Nut

6526895
Knurled Screw

6526795
Drive Mechanism

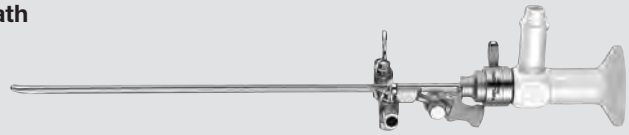
1-12

Cystoscope-Urethroscope Sheath, Pediatric Cystoscope-Urethroscopes

KARL STORZ — ENDOSKOPE

Components / Spare Parts — Catalog page

67031 E **Cystoscope-Urethroscope Sheath** — 122



Spare Parts

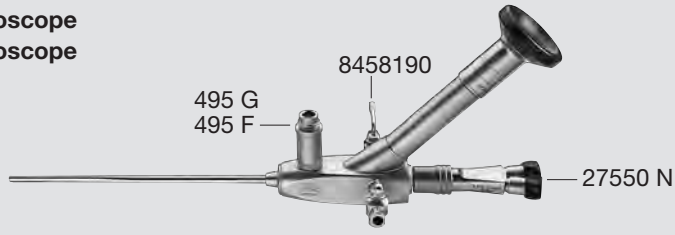
27550 A
Sealing Cap, drill hole diameter 0.8 mm

8515090
Stopcock

6985691
Spring Cap

Components / Spare parts — Catalog page

27030 KA **Pediatric Cystoscope-Urethroscope** — 123
27030 KB **Pediatric Cystoscope-Urethroscope** — 124



Spare Parts

27001 G
Instrument Port with Sealing System and Quick Release Lock, 1 channel

27550 N
Seal, for working channel, package of 10, single use recommended

27001 GF
Instrument Port with Sealing System and Quick Release Lock, 2 channels

495 F
Receptacle, diameter 9 mm, for Wolf fiber optic light cable

27001 GH
Instrument Port with Sealing System and Quick Release Lock, 2 channels, 1 straight channel, 1 lateral channel

495 G
Screw Base, for KARL STORZ fiber optic light cable and Olympus/Winter & Ibe

27001 RA
Cleaning Adaptor, for Working Channel 27001 G/GF/GH

6985691
Spring Cap

27504
Flow Control Stopcock

8458190
Stopcock

1-12

Cystoscope-Urethroscope Sheaths, Catheter Deflecting Mechanism, Telescope Bridges

KARL STORZ — ENDOSKOPE

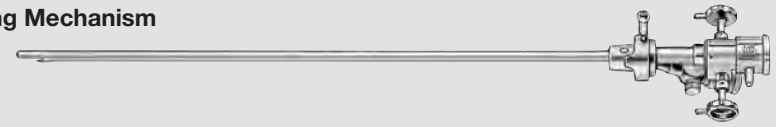
Components / Spare Parts		Catalog page
63026 A	**Cystoscope-Urethroscope Sheath**	126
63026 B	**Cystoscope-Urethroscope Sheath**	126
27026 C	**Cystoscope-Urethroscope Sheath**	126
27026 D	**Cystoscope-Urethroscope Sheath**	126
63026 U	**Cystoscope-Urethroscope Sheath**	126
63027 KL	**Cystoscope-Urethroscope Sheath**	127
63027 UL	**Cystoscope-Urethroscope Sheath**	127

Spare Parts

6985691
Spring Cap

8458190
Stopcock

Components / Spare Parts		Catalog page
63026 E	**Catheter Deflecting Mechanism**	126
63027 E	**Catheter Deflecting Mechanism**	127



Spare Parts

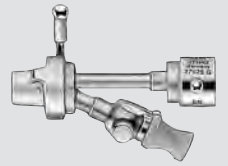
27021 O
Rod

6377091
Spring Cap

27550 C
Sealing Cap, drill hole diameter 1.2 mm

6626690
Stopcock

Components / Spare Parts		Catalog page
63025 G	**Telescope Bridge**	126
63027 NL	**Telescope Bridge**	127



Spare Parts

27550 C
Sealing Cap, drill hole diameter 1.2 mm

6626690
Stopcock

6377091
Spring Cap

1-12

Minitube TCI Endoscope, Stone Basket, Operating Sheath

KARL STORZ — ENDOSKOPE

Components / Spare parts — Catalog page

63002 LA **Minitube TCI Endoscope** — 128

Spare Parts

27001 G
Instrument Port with Sealing System and Quick Release Lock,
1 channel

27001 RA
Cleaning Adaptor,
for Working Channel 27001 G/GF/GH

27550 N
Seal, for working channel, package of 10, single use recommended

495 F
Receptacle,
diameter 9 mm, for Wolf fiber optic light cable

495 G
Screw Base,
for KARL STORZ fiber optic light cable and Olympus/Winter & Ibe

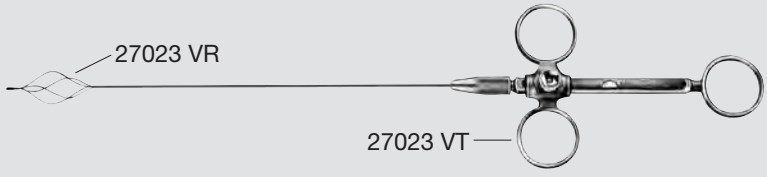
6958691
Spring Cap

8458190
Stopcock

Components / Spare parts — Catalog page

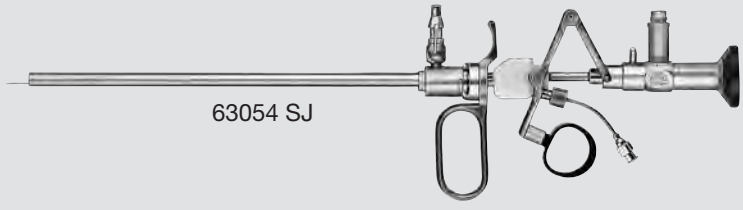
67023 VK **Stone Basket,** flexible, 5 Fr., length 60 cm — 129, 138

27023 VT **3-Ring Handle**
27023 VR **Basket**
27023 VS **Coil**



Components / Spare parts — Catalog page

63054 SJ **Operating Sheath** — 132



Spare Parts

6376990
Stopcock, for irrigation connector

6377091
Spring Cap

1-12

POINT SETTER®, Air Compressors, STOR-E® Transport Cart

KARL STORZ — ENDOSKOPE

Components / Spare parts		Catalog page
28172 WKS	**POINT SETTER®,** pneumatic holding arm	148
28172 W	**POINT SETTER® Arm,** with OR table adaptor	
28272 UA	**KSLOCK Adaptor,** for clamping jaws	
28272 UGN	**Clamping Jaw,** large	
28272 UKN	**Clamping Jaw,** small	
28272 UF	**Clamping Jaw,** for fiberscopes	
2761291	**Pressure Regulator,** 7 bar	
28172 WD	**Drape,** for single use, sterile, package of 10	

Components / Spare Parts		Catalog page
20031002	**Air Compressor,** for POINT SETTER®	149
20031020	**Compressor,** 0 – 8 bar, power supply 230 VAC, 50/60 Hz	
27630022	**Fabric Reinforced Tube,** for CALCUSPLIT® SCB	
28172 WC	**Connecting Tube,** for POINT SETTER®, length 600 cm	

20031002

Components / Spare Parts		Catalog page
20031002 C	**Air Compressor,** for POINT SETTER®	149
20031020 C	**Compressor,** 0 – 8 bar, power supply 115 VAC, 50/60 Hz	
27630022	**Fabric Reinforced Tube,** for CALCUSPLIT® SCB	
28172 WC	**Connecting Tube,** for POINT SETTER®, length 600 cm	

20031002 C

Components / Spare parts		Catalog page
20020083	**STOR-E® Transport Cart,** for POINT SETTER® holding arm	150
20020061	**Subrack,** for POINT SETTER®	
20020055	**Accessory Set,** for POINT SETTER®	
20020057	**Top Cover**	
29005 AK	**Wire Basket**	
96206358DF	**Manual**	

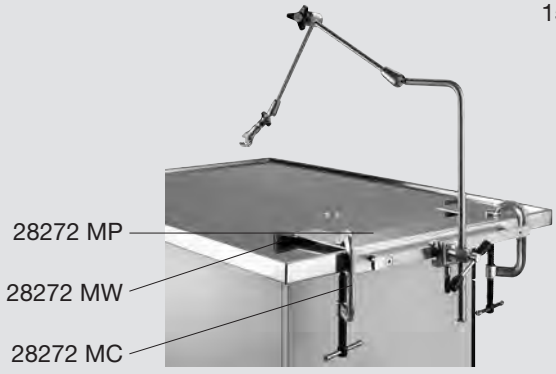
1-12

ENDOCRANE®, Mobile OR-Rail

Components / Spare Parts		Catalog page
28272 EH	**ENDOCRANE®,** piezoregulated holding arm	151
28272 EHS	**ENDOCRANE® Arm,** including stand	
28172 HG	**Socket,** to clamp to the OR table	
20780020	**Control Unit**	
040146-25*	**Cover,** sterile, package of 25	
28272 ECW	**Spring Balance**	
400 A	**Mains Cord,** length 300 cm	
27677 BV	**Case**	

28272 EHS

Components / Spare parts		Catalog page
28272 MR	**Mobile OR-Rail**	155
28272 MP	**Holding Plate**	
28272 MC	**C-Clamp**	
28272 MW	**Stop-Block**	



Components / Spare parts		Catalog page
62430508-1	**Electronic CO_2 ENDOFLATOR® SCB**	U 6
26430520-1	**Electronic CO_2 ENDOFLATOR® with KARL STORZ-SCB,** power supply 100 – 240 VAC, 50/60 Hz	
400 A	**Mains Cord**	
20400143	**Silicone Tubing Set,** sterilizable	
20400030	**Universal Wrench**	
20090170	**SCB Connecting Cable,** length 100 cm	
031122-10*	**CO_2/N_2O Gas Filter,** sterile, for single use, package of 10	

62430520-1

Spare Parts

2027590
Mains Fuse,
T 2.0 AL (SB),
package of 10

Components / Spare parts		Catalog page
62432501	**CO_2 ENDO-ARTHROFLATOR-VET**	U 8
62432520	**CO_2 ENDO-ARTHROFLATOR-VET,** power supply 100 – 240 VAC, 50/60 Hz	
400 A	**Mains Cord**	
400 B	**Mains Cord,** US-version	
20400143	**Silicone Tubing Set,** sterilizable	
20400030	**Universal Wrench**	
031122-10*	**CO_2/N_2O Gas Filter,** sterile, for single use, package of 10	

62432520

Spare Parts

2027390
Mains Fuse,
T 1.0 A (SB),
package of 10

1-12

* mtp medical technical promotion gmbh,
Take-Off GewerbePark 46, D-78579 Neuhausen ob Eck, Germany

Components / Spare Parts		Catalog page
20400022	**CO_2 High Pressure Tube**	U 10
20400028	**CO_2 High Pressure Tube**	U 10

Spare Parts

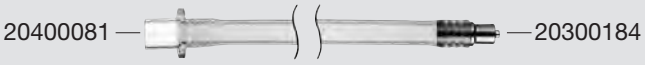
2903390
Seal, for use with CO_2 bottle, Pin-Index connector

Components / Spare Parts		Catalog page
20400021	**CO_2 High Pressure Tube**	U 10
20400027	**CO_2 High Pressure Tube**	U 10

Spare Parts

2903490
Seal, for use with CO_2 bottle, German connection

Components / Spare Parts		Catalog page
20400143	**Silicone Tubing Set,** for insufflation	U 10



Spare Parts

20400081
Plastic Connector, male

20300184
LUER-Lock Tube Connector, male, tube diameter 10 mm

Components / Spare parts		Catalog page
69330004-1	**ARTHROPUMP® SCB**	U 12
28330020-1	**ARTHROPUMP® with KARL STORZ-SCB,** power supply 100 – 240 VAC, 50/60 Hz	
400 A	**Mains Cord**	
031128-01*	**Tubing Set,** for single use	
20090170	**SCB Connecting Cable,** length 100 cm	

28330020-1

Spare Parts

2027390
Mains Fuse,
T 1.0 A (SB),
package of 10

Components / Spare Parts		Catalog page
26330042	**ARTHRO Tubing Set**	U 12

Spare Parts

2719791
Pressure Dome ARTHRO,
without silicone tubing set

2720091
Silicone Tubing Set ARTHRO, without pressure dome

20330386
Pump Tubing ARTHRO,
without connectors,
package of 25

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1-12

Components / Spare Parts	Catalog page
2719791 Pressure Dome ARTHRO	U 12

Spare Parts

2731091
Lock Ring ARTHRO

2731591
Compression Spring ARTHRO/HYST

2731191
Dome

2731691
Plastic Disk

2731291
Dome Ring

20330185
Diaphragm for Pressure Dome, package of 10

2731391
Sealing Disk, for pressure relief valve

20330188
O-Ring, package of 10

Components / Spare Parts	Catalog page
20330386 Pump Tubing ARTHRO/LAP	U 12

Spare Parts

2731791
Connector Set LAP

1-12

Components / Spare Parts — Catalog page

Patient Tube — U 12

Spare Parts

20300185
Tube Connector

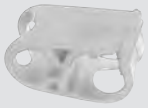
27500
LUER-Lock Tube Connector, male, tube diameter 9 mm

Components / Spare Parts — Catalog page

Inflow Tube, with Y-adaptor — U 12

Spare Parts

20330088
Puncture Needle, for irrigation bottle



2732091
Tube Clip, white, package of 10

2732191
Y-Adaptor, package of 10

Components / Spare parts — Catalog page

69321501 **VETPUMP®** — U 14

69321520 **VETPUMP®,** power supply 230 VAC, 50/60 Hz

400 A **Mains Cord**

69321520

Spare Parts

2027590
Mains Fuse, T 2.0 AL (SB), package of 10

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Components / Spare parts — Catalog page

69321601	**VETPUMP® II**	U 16
69321620	**VETPUMP® II,** power supply 100/120, 230/240 VAC, 50/60 Hz	
400 A	**Mains Cord**	
400 B	**Mains Cord,** US-version	
20300052	**Suction Bottle,** 1.5 l, sterilizable	
20300034	**Bottle Cap,** for use with suction bottle 1.5 l, sterilizable	
69311601	**Irrigation Bottle,** 1 l, sterilizable	
69311610	**Bottle Cap,** for use with Irrigation Bottle 69311601	
69 300233	**Bottle Holder,** for suction bottle	
69300133	**Bottle Holder,** for irrigation bottle	
031124-10*	**Filter,** to block fluid during suction, for single use, unsterile, package of 10	

69321620 C

Spare Parts

1059400
Mains Fuse,
THT/T0, 800A/5 x 20 mm

Components / Spare Parts — Catalog page

20300042	**Silicone Tubing Set,** for suction	U 16

Spare Parts

27500
LUER-Lock Tube Connector, male,
tube diameter 9 mm

20300180
Tubing Connector Set,
for Bottle Cap 20300034

20300181
LUER-Lock Tube Connector, female,
tube diameter 8 mm

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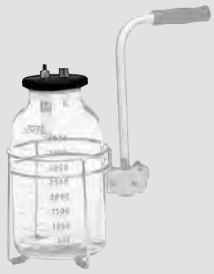
Components / Spare Parts — Catalog page

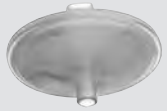
20300034 **Bottle Cap** — U 16



Spare Parts

20300580
Overflow Case, gray,
for Bottle Cap 20300034

2911590
Plunger Ball, green,
to overflow case,
2 pcs required



031124-10*
Filter, to block fluid during suction, for single use, unsterile, package of 10

Components / Spare Parts — Catalog page

69311610 **Bottle Cap** — U 16

Spare Parts

2386390
Sealing Ring

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Components / Spare parts — Catalog page

28723001-1	**UNIDRIVE® S III ARTHRO SCB**	U 21
28723020-1	**UNIDRIVE® S III ARTHRO SCB**	
20090170	**SCB Connecting Cable,** length 100 cm	
400 A	**Mains Cord**	
96156013D	**Manual**	

28723020-1

Spare Parts

1059700
Mains Fuse,
100 – 240 VAC,
T 2.5 AL (SB),
package of 10

1222890
Fuse,
100 – 127 VAC, T 5.0 A,
package of 10

Components / Spare parts — Catalog page

2053520x-12x **AUTOCON® II 400 SCB** — U 40

2053522x-12x **AUTOCON® II 400 SCB,** power supply 220 – 240 VAC, 50/60 Hz
400 A **Mains Cord**
20090170 **SCB Connecting Cable,** length 100 cm

2053522x-12x
2053522xU12x

2053520xU12x **AUTOCON® II 400 SCB**

2053522xU12x **AUTOCON® II 400 SCB,** power supply 100 – 120 VAC, 50/60 Hz
400 A **Mains Cord**
20090170 **SCB Connecting Cable,** length 100 cm

Spare part for use at 230 V:

2027690
Mains Fuse,
T 4.0 AL (SB),
package of 10

Spare part for use at 110 V:

2028090
Mains Fuse,
T 8.0 AL (SB),
package of 10

1-12

Components / Spare parts — Catalog page

20532201 **AUTOCON® II 200** — U 42

20532220 **AUTOCON® II 200,** power supply 200 – 240 VAC, 50/60 Hz

400 A **Mains Cord,** length 300 cm

20532220
20532220-010
20532220C
20532220C010

20532201-010 **AUTOCON® II 200**

20532220-010 **AUTOCON® II 200,** with GASTRO-Cut, power supply 200 – 240 VAC, 50/60 Hz

400 A **Mains Cord,** length 300 cm

20532201 C **AUTOCON® II 200**

20532220C **AUTOCON® II 200,** power supply 100 – 120 VAC, 50/60 Hz

400 B **Mains Cord,** US version, length 200 cm

20532201C010 **AUTOCON® II 200**

20532220C010 **AUTOCON® II 200,** with GASTRO-Cut, power supply 100 –120 VAC, 50/60 Hz

400 B **Mains Cord,** US version, length 200 cm

Spare part for use at 230 V:

2027690
Mains Fuse,
T 4.0 AL (SB),
package of 10

Spare part for use at 110 V:

2028090
Mains Fuse,
T 8.0 AL (SB),
package of 10

Components / Spare parts — Catalog page

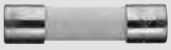
20530801 **AUTOCON® II 80** — U 44

20530820 **AUTOCON® II 80,** power supply 100 – 240 VAC, 50/60 Hz

400 A **Mains Cord,** length 300 cm

20530820

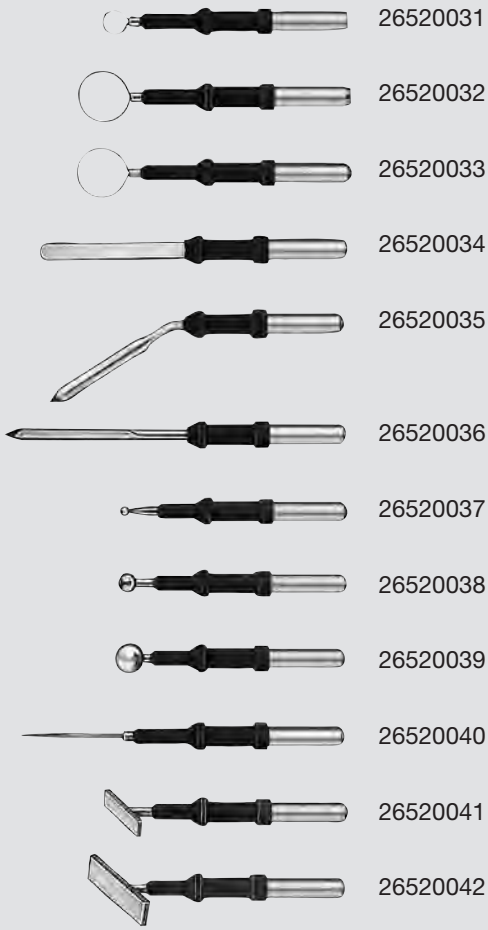
Spare part



2027690
Mains Fuse,
T 4.0 AL (SB),
package of 10

Surgery Electrodes Set

Components / Spare parts		Catalog page
20530008	**Surgery Electrodes Set**	U 47
20530031	**Container with Lid and Sterilizing Insert,** for 16 electrodes with diameter 4 mm	
26520031	**Wire Snare,** 5 mm	
26520032	**Wire Snare,** 10 mm	
26520033	**Ribbon Snare,** 10 mm	
26520034	KIRSCHNER **Spatula Electrode,** straight	
26520035	MAGENAU **Knife Electrode,** angled	
26520036	MAGENAU **Knife Electrode,** lancet-shaped	
26520037	**Ball Electrode,** 2 mm	
26520038	**Ball Electrode,** 4 mm	
26520039	**Ball Electrode,** 6 mm	
26520040	**Needle Electrode**	
26520041	**Flat Electrode,** 8 x 10 mm	
26520042	**Flat Electrode,** 10 x 15 mm	



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