

## Specifications

Microscope unit		
Type	Galileo type	
Magnification	Drum, 5-step magnification	
Magnification steps	6/10/16/25/40	
Overall magnification (actual vision field)	6.37 (φ 35.1mm) 9.94 (φ 22.5mm) 15.87 (φ 14.1mm) 25.37 (φ 8.8mm) 39.62 (φ 5.6mm)	
Eyepiece lens	Magnification	12.5x
	Diopter adjustment range	-5D to +5D
Binocular tubes	PD adjustment: 55 to 78mm	
Illumination unit		
Illumination field	Slit width	0 to 14mm, adjustable (14mm=circle)
	Slit length	14mm to 1mm, adjustable (14mm=circle)
	Aperture diameter	φ14, 10, 5, 2, 1, 0.2 mm
Slit direction	Vertical to horizontal, adjustable Inclination: 5°/10°/15°/20° Side swing	
Filter	Blue filter, red-free filter, amber filter, UV cut filter (normal use) ND filter (13% transmission)	
Illumination lamp	LED type	3A, 10W
Base unit		
Forward-backward movement	90mm	
Right-left movement	100mm	
Vertical movement	30mm	
Amount of movement in all directions	12mm	
Chinrest unit		
Amount of vertical movement of chinrest	80mm	
Fixation target	Fixation target with diopter adjustment Luminous fixation target	
Fixation lamp	LED (Red)	
Other Specifications		
Dimensions	w/ Table	550mm(W) x 420mm(D) x 752 to 782mm(H)
	w/ Unit Table	440mm(W) x 397mm(D) x 752 to 782mm(H)
	w/o Table	329mm(W) x 396mm(D) x 652 to 682mm(H)
	w/o Table and Chinrest	329mm(W) x 331(304)mm(D) x 652 to 682mm(H)
	Weight: w/ Table	19kg
	w/ Unit Table	18kg
	w/o Table	13kg
	w/o Table and Chinrest	11.5kg
	Table size	550mm x 370mm
Unit Table size	440mm x 350mm	
Height from the top to patient's eye	375mm	
Power Supply	100-240V AC, 50-60Hz, 110VA	



\*Subject to change in design and/or specifications without advanced notice.

**IMPORTANT** In order to obtain the best results with this instrument, please be sure to review all user instructions prior to operation.



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SL-D701 with LED Light Source

DC-4 Digital Camera



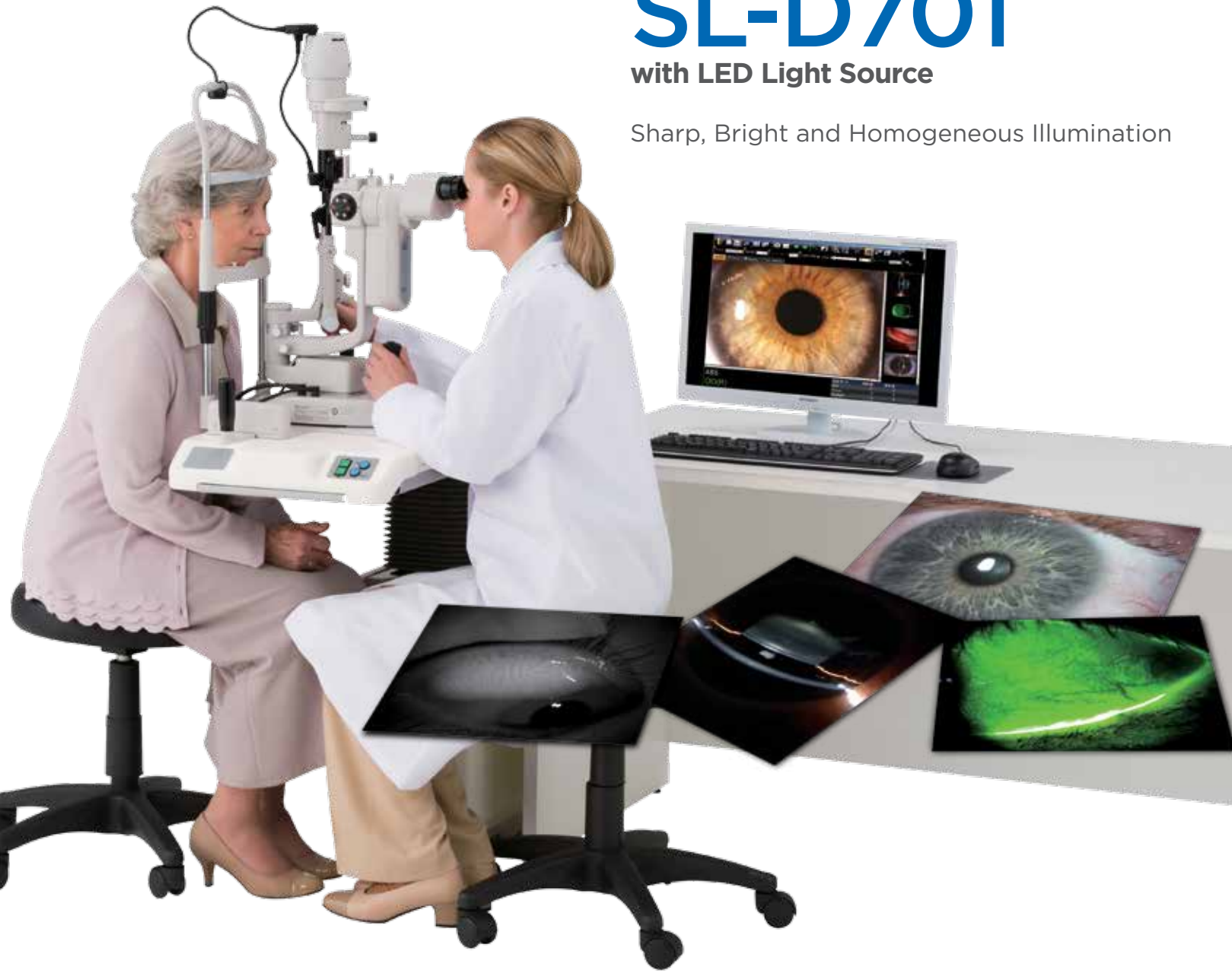
PERFORMANCE  
YOU CAN COUNT ON



# SL-D701

with LED Light Source

Sharp, Bright and Homogeneous Illumination



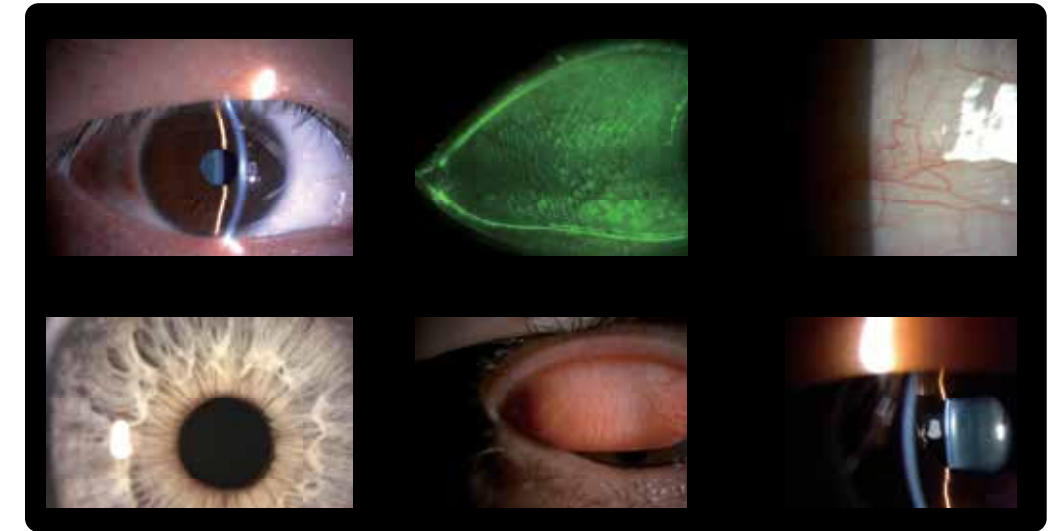
## Features

- » LED Illumination Source
- » Apochromatic Optics with Protective Coating
- » Selectable Amber Filter for Color Correction
- » Five Magnifications Selectable by Rotating Drum

## Optional DC-4 Digital Camera

- » High Resolution
- » Smart Capture Function
- » Video Capability
- » Auto Exposure

## Advantages and Benefits of LED



### LED Illumination Source

The new LED illumination source allows observation under a brighter and more homogeneous light condition compared to the conventional halogen bulb source. Color temperature remains uniform when adjusting light intensity insuring consistent viewing results. The short wavelength of the LED spectrum allows for the observation of minute details.

### Advantages of LED Illumination

- » Brighter illumination enhances observation of the eye structures
- » Wavelength characteristics allow for easy visualization of subtle details
- » Consistent color temperature throughout the entire intensity adjustment
- » Substantial reduction in bulb replacement
- » Energy and cost savings





# DC-4

**Digital Camera**  
Exclusively from Topcon

## Smart Capture Function

With a simple push of the joystick trigger the operator can obtain a rapid series of images that are quickly saved for later revision and selection. The Smart Capture function minimizes failed images or blurry pictures, especially in children and non-cooperative patients.

## Still Image with Auto Exposure (AE) Function

By automatically adjusting the shutter speed and sensor gain, the brightness of the image will be automatically compensated. As a result, the live image used for alignment and the final picture will have the same color balance.

## Live View

When using the EZ Capture® or IMAGEnet® software in conjunction with the DC-4, a real time live image will be seen on the monitor to facilitate centering and focusing. The live image can be used to show the eye condition to third party individuals for teaching and education. Sensitivity, shutter speed and white balance can be adjusted from the computer.

## Video Capability

The DC-4 allows for easy acquisition of video clips of the eye movements without interfering with the examination.



## Additional Filters

### Amber Filter

A warmer, more pleasant tone of skin and eye structures can be obtained by inserting the amber filter. This color correction filter produces a pleasant coloration that is especially useful in slit lamp imaging.



With Amber Filter



Standard LED Illumination

### Right / Left Eye Indicator

When in photography mode, the SL-D701 automatically recognizes the eye being photographed and identifies right eye or left eye in the capture software.

### More Than Just the Basic Functions

Advanced lens coatings including a protective layer plus the use of apochromatic optics enhance the observation, reduce fatigue and minimize maintenance.

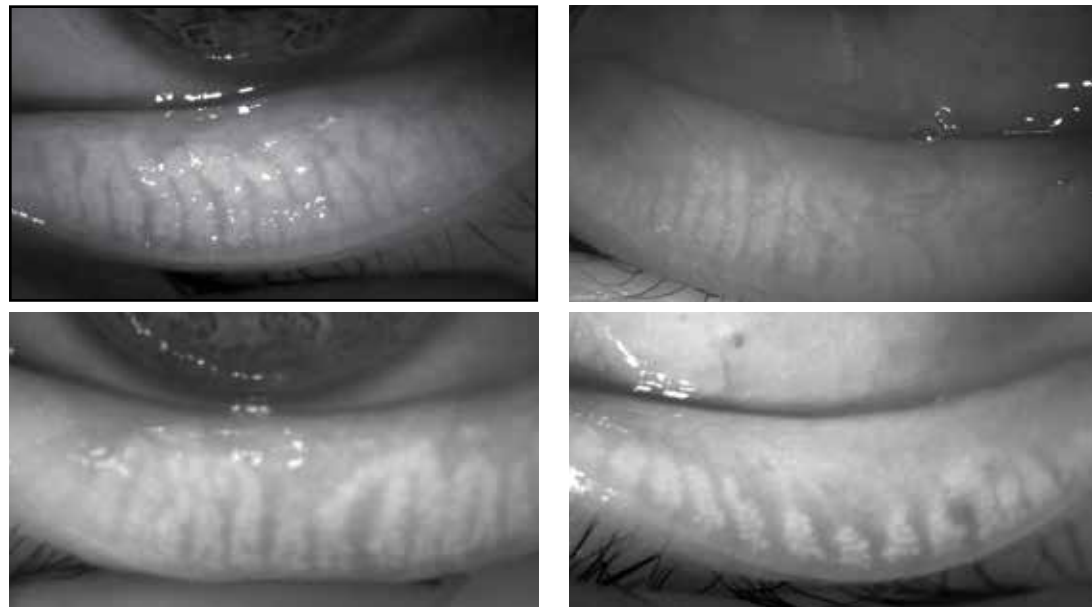
In addition to the standard Cobalt Blue, ND and Red-free filters, the SL-D701 features a color correction Amber Filter.



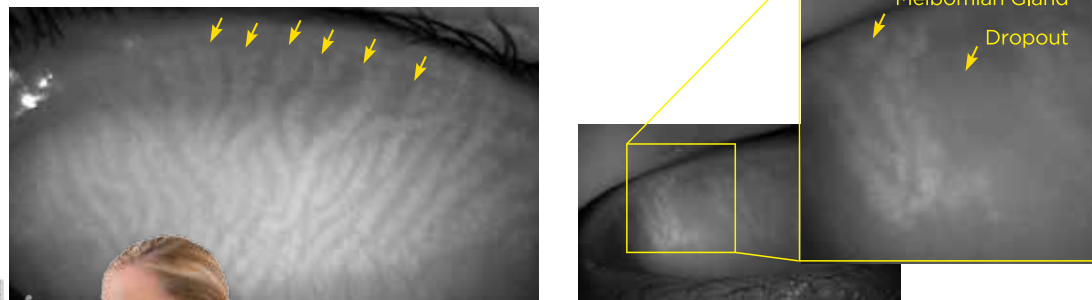
# Meibomian Gland Observation

Meibomian gland observation and documentation is possible when using the optional DC-4, BG-5 digital photo attachment and background illuminator.

## Different Conditions of Meibomian Glands



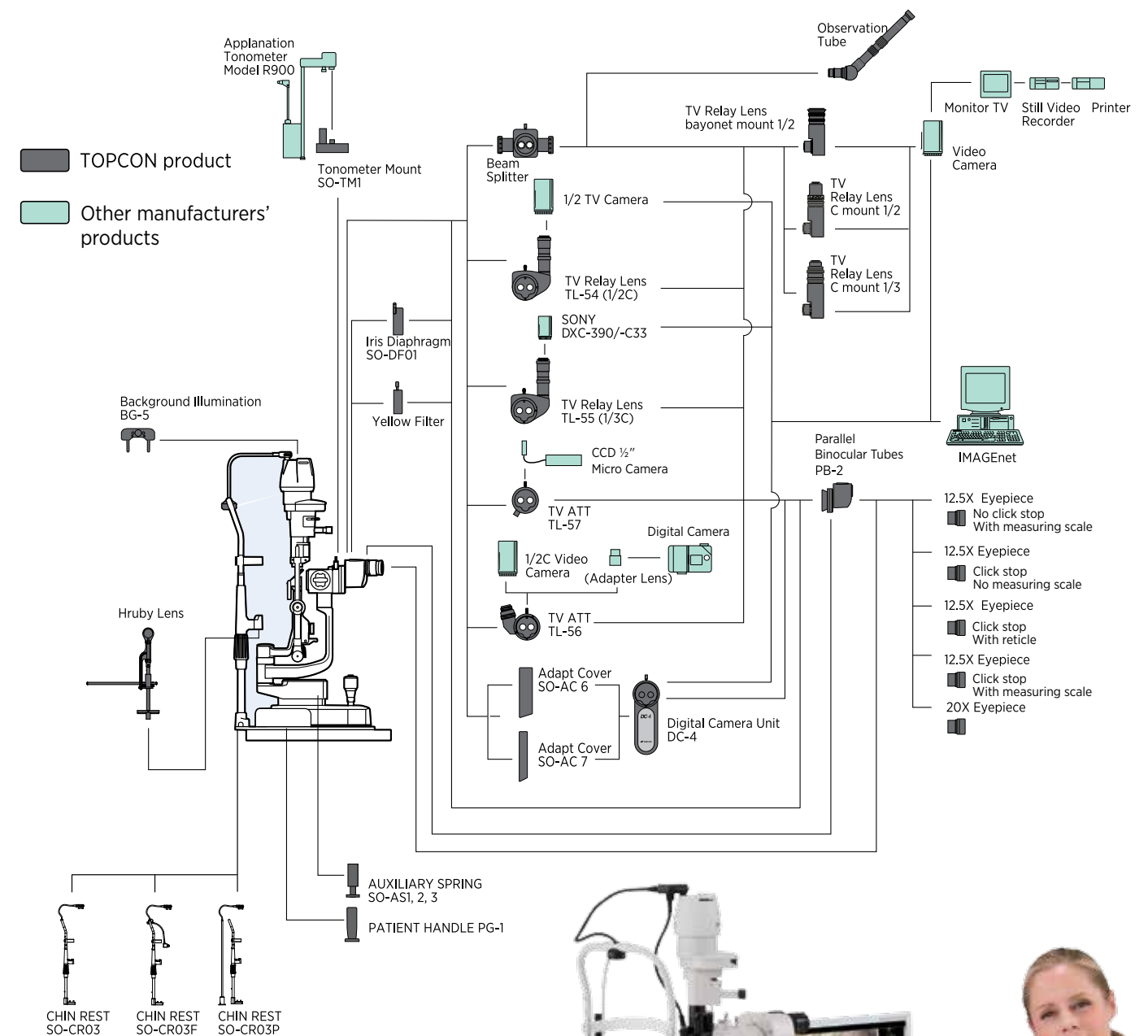
## Meibomian Gland Close-up



Images courtesy of Reiko Arita, MD, PhD. Itoh Clinic, Department of Ophthalmology, University of Tokyo School of Medicine



# System Chart



# SL-D701

with LED Light Source

Shown with optional DC-4 Digital Attachment and BG-5 Background Illuminator, optional handle bars and optional instrument table.

NOTE: Optional instrument table not available in all markets.

