

ML5000 Series

LABORATORY MICROSCOPES

BRIGHTFIELD PHASE CONTRAST DARKFIELD

ML5200

ML5500



FEATURES OF ML5000 SERIES

The high quality and dependability of the ML5000 Series with the added advantage of an ergonomic reversed quintuple nosepiece for mounting extra objectives and an optional 50W illuminator. The ML5000 Series encompasses 12 standard configurations.

1 VIEWING HEADS

Available with standard binocular heads or trinocular heads:

Binocular head: Inclined at 30° , rotatable through 360° . Dual graduated diopter eyetubes with interpupillary adjustments of 52mm to 72mm.

Trinocular head: Inclined at 30°, rotatable through 360°.

A sliding beam splitter directs 100% of the light to the eyepieces or 80% to the camera and 20% to the eyepieces.

② EYEPIECES

Paired DIN KHW10X with 20mm field of view, 22mm eye relief.

③ OBJECTIVE CHANGER

Smooth operating, ball bearing mounted ergonomic, reverse-angle, quintuple nosepiece.

4 OBJECTIVES

SM Semi Planachromats, BF Semi Planachromats, Planachromats or Phase Contrast.

⑤ STAGES

Flat-top stage: 171mm x 140mm surface with 80mm (X) by 52mm (Y) movement, graduated with vernier readings to 0.1mm, detachable specimen guide, drop-down right or left-handed controls. An attachable clinical specimen holder is available at option.

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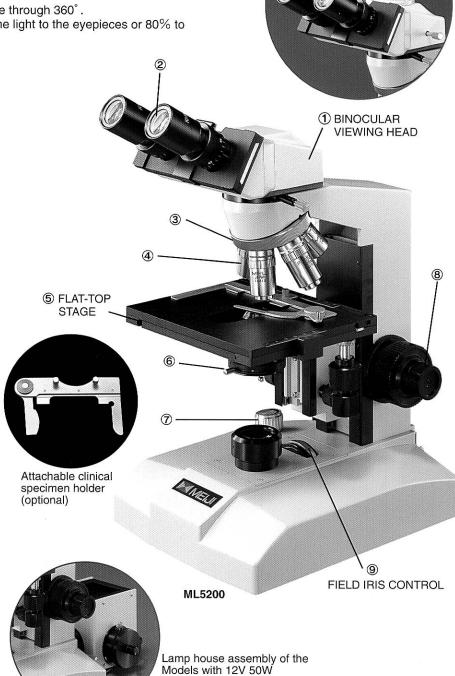
An Achromatic, N.A. 1.25 substage condenser with iris diaphragm and filter tray. Or, Zernike type Phase condenser N.A.1.25.

⑦ ILLUMINATOR

Variable-intensity Koehler illumination for apertures up to 1.25. Available in 6V 30W (built-in) or 12V 50W (attached lamp house) models.

8 FOCUSING MOVEMENT

Coaxial coarse and fine focusing controls with graduation reading 2 microns per division. Incorporates tension adjustment and safety Autofocus stop unit.



1 TRINOCULAR

VIEWING HEAD

SIZE AND WEIGHT

30W Models;

Binocular Models: $195mm(W) \times 255mm(D) \times 395mm(H)$, Net weight: 6.4Kg Trinocular Models: $195mm(W) \times 255mm(D) \times 440mm(H)$, Net weight: 6.5Ka

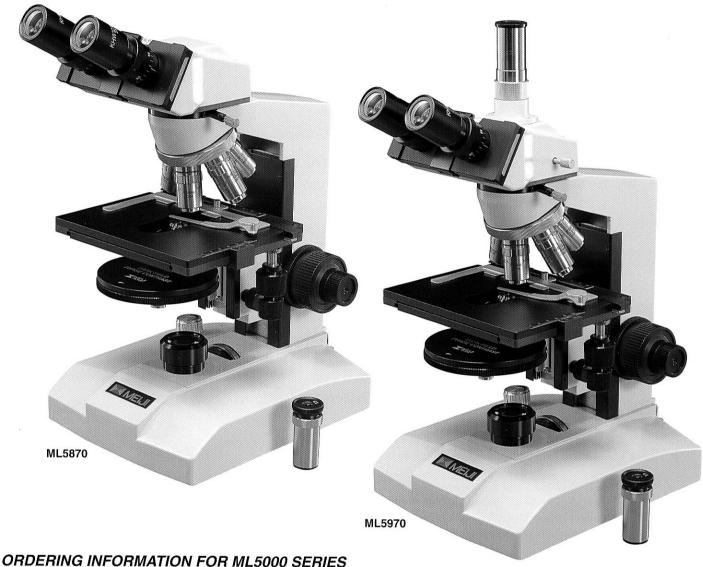
50W Models;

halogen illuminator

Binocular Models: $195mm(W) \times 360mm(D) \times 395mm(H)$, Net weight: 7.5Kg Trinocular Models: $195mm(W) \times 360mm(D) \times 440mm(H)$, Net weight: 7.6Kg



PHASE CONTRAST MICROSCOPES



MODEL	BODY	EYEPIECES (DIN)	OBJECTIVES (DIN)	MECHANICAL STAGE	CONDENSER	ILLUMINATOR
ML5000	Binocular	KHW10X, 20mm f.o.v.	SM Semi Plan 4X, 10X, S40X, S100X oil	Flat-top, 80mm x 52mm movement, with (right hand contorol)	Achromatic N.A. 1.25 with blue filter	Koehler 6V 30W Halogen
ML5100	Trinocular					
ML5050	Binocular		BF Semi Plan 4X, 10X, S40X, S100X oil			
ML5150	Trinocular					
ML5200	Binocular		Planachromat 4X, 10X, S40X, S100X oil			
ML5300	Trinocular					
ML5400	Binocular					Koehler 12V 50W Halogen
ML5500	Trinocular					
ML5855	Binocular	with centering telescope	Achromat Phase 10X, S20X, S40X, S100X oil		Zernike type Phase condenser N.A.1.25 with green filter	Koehler 6V 30W Halogen
ML5955	Trinocular					
ML5870	Binocular		BF Semi Plan Phase 10X, S20X, S40X, S100X oil		Zernike type Phase condenserN.A.1.25 with green interference filter	Koehler 12V 50W Halogen
ML5970	Trinocular					

- Supplied in styrofoam case with dust cover and instruction manual.
- Left hand control mechanical stage is optional. Please indicate the letter "L" after the model number when ordering the ML5000 series microscope with left hand control mechanical stage (For instance: Model ML5000L).





PHASE CONTRAST SET, PH-A comprising:

MA715 Zernike type N.A. 1.25 Phase condenser in turret mount, individual centerable phase annuli for 10X, 20X,40X and 100X with brightfield position with iris and filter tray for 29.8mm diameter filter

MA695 BF Semi Planachromat Phase objective 10X, N.A. 0.25
MA697 BF Semi Planachromat Phase objectives S20X, N.A. 0.40
MA698 BF Semi Planachromat Phase objectives S40X, N.A. 0.65
MA699 BF Semi Planachromat Phase objectives S100X, N.A. 1.25 oil
MA458 Centering telescope to check phase annulus
MA759 Green interference filter, 29.8mm diameter.

The unitt is equipped in Models: ML5870 and ML5970.

PHASE CONTRAST SET, PH-B comprising:

MA715 Zernike type N.A. 1.25 Phase condenser in turret mount, individual centerable phase annuli for 10X, 20X,40X and 100X with brightfield position with iris and filter tray for 29.8mm diameter filter

MA448 DIN Achromat Phase objective 10X, N.A. 0.25
 MA449 DIN Achromat Phase objectives S20X, N.A. 0.40
 MA450 DIN Achromat Phase objectives S40X, N.A. 0.65
 MA451 DIN Achromat Phase objectives S100X, N.A. 1.25 oil

MA458 Centering telescope to check phase annulus MA290/05 Green clear filter, 29.8mm diameter.

The unitt is equipped in Models: ML5855 and ML5955.

PHASE AND DARKFIELD SET, PD-A comprising:

MA716 Zernike type N.A. 1.25 Phase condenser in turret mount, individual centerable phase annuli for 10X, 20X and 40X, darkfield stop for 40X and iris and filter tray for 29.8mm diameter filter

MA448 DIN Achromat Phase objective 10X, N.A. 0.25
 MA449 DIN Achromat Phase objectives S20X, N.A. 0.40
 MA450 DIN Achromat Phase objectives S40X, N.A. 0.65
 MA458 Centering telescope to check phase annulus

MA290/05 Green clear filter, 29.8mm diameter

ACCESSORIES FOR HIGH POWER DARKFIELD MICROSCOPY

MA274 Darkfield condenser, Cardiod type, for high power use (N.A. 1.25) in a centering mount (to be used with 100X objective with iris only).

MA811 BF Semi planachromat S50X, N.A. 0.95 oil, with iris diaphragm

MA813 BF Semi planachromat S100X, N.A. 1.25 oil, with iris diaphragm

MA430 S.Plan objectives S100X oil, with iris diaphragm



PH-A



PH-B



PD-A



Darkfield condenser and objectives with iris diaphragm

COMPONENTS AND ACCESSORIES

VIEWING HEADS (without eyepieces)

MA403 Inclined Monocular headMA602 Inclined Binocular headMA603 Inclined Trinocular head

EYEPIECES

MA406 DIN HWF10X, Field No.18, Eye Relief 24mm (ea)
MA407 DIN KHW10X, Field No.20, Eye Relief 22mm (ea)
MA408 DIN HWF15X, Field No.12.2, Eye Relief 15mm (ea)
MA409 DIN HWF20X, Field No.9, Eye Relief 9mm (ea)



ML5000 Series

ACCESSORIES

VIDEO EQUIPMENT

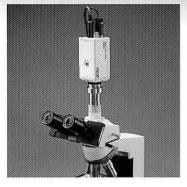
CK3100N CCD Color TV camera. 1/3"CCD, 450 lines of resolution, NTSC system with DC12V adapter

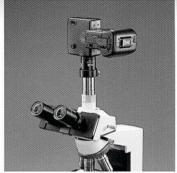
CK3100P CCD Color TV camera. 1/3"CCD, 450 lines of

resolution, PAL system with DC12V adapter

CK3900N CCD Color TV camera. 1/2"CCD, 450 lines of resolution, NTSC system with DC12V adapter

CK3900P CCD Color TV camera. 1/2"CCD, 450 lines of resolution, PAL system with DC12V adapter





VIDEO "C" MOUNTS

MA151/10 "C"mount adapter

(Replaces existing phototube)

MA151/35/04 "C"mount adapter with 0.45X lens

(Slips over top of existing phototube)

MA151/35/15 "C"mount adapter with 1.0X lens (Slips over top of existing phototube)

MA151/35/20 "C"mount adapter with 0.7X lens

(Slips over top of existing phototube)

MA151/35/25 "C"mount adapter with 2.5X lens (Slips over top of existing phototube)

DIGITAL CAMERA ADAPTERS

MA151/30/50 Digital Camera adapter for use with Nikon

Coolpix950, 990, 995 and 4500 digital cameras. (Slips over top of existing phototube)

MA151/30/60 Digital Camera adapter for use with Ol

Digital Camera adapter for use with Olimpus Camedia C-3040 ZOOM, C-4040 ZOOM and C-3100 ZOOM. (Slips over top of existing

phototube)

MA151/30/70 Digital Camera adapter for use with Nikon

Coolpix5000 (Slips over top of Existing phototube)

MA151/30/80 Digital Camera adapter for use with Fuji Finepix

S602 4900Z. 6900Z (Slips over top of Existing phototube)

35mm SLR CAMERA PHOTOMICROGRAPHY

The following accessories are required for 35mm SLR camera photomicrography

1. Camera Attachment

MA150/50 Camera attachment to fit to photo tube of trinocular models

MA150/60 Camera attachment as above, but with eyepiece finder

2. Photo Eyepiece

MA512 Photo eyepiece 2.5X (Magnifies objective power by 2.5X at the film plane)

MA508 Photo eyepiece 5X (Magnifies objective power by 5X at the film plane)

MA500 Photo eyepiece 3.3X (Magnifies objective power by 3.3X at the film plane, with reticle mount)





MA150/60

3. T-2 Adapter Ring

T2-1 Adapter ring for CANON camera

T2-2 Adapter ring for MINOLTA camera

T2-3 Adapter ring for PENTAX K, RICOH-XR camera

T2-4 Adapter ring for PENTAX S camera

T2-5 Adapter ring for NIKON camera

T2-6 Adapter ring for OLYMPUS camera

T2-7 Adapter ring for CONTAX, YASHIKA camera

T2-8 Adapter ring for KONICA camera

T2-9 Adapter ring for CANON EOS camera

T2-10 Adapter ring for MINOLTA α , MAXIM 2000 camera

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