

ML2000 Series

LABORATORY MICROSCOPES

BRIGHTFIELD PHASE CONTRAST DARKFIELD

MI 200

ML2100



FEATURES OF ML2000 SERIES

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, revolving quadruple ball bearing nosepiece.

4 OBJECTIVES

Five types of objectives are available: S. Flat Achromats, SM Semi Planachromats, Planachromats, DIN Achromats Phase and BF Semi Plan Phase.

5 STAGES

Two types of stages are available: The attached stage is a 120mm x 140mm rectangular mechanical stage with movements of 75mm (X) and 40mm (Y) and is graduated with vernier readings to 0.1mm, equipped with low-positioned drop-down coaxial controls.

The flat-top stage is a 171mm x 140mm rectangular stage with movements of 80mm (X) and 52mm (Y) and is dropdown coaxial controls and a detachable specimen guide.

© CONDENSER

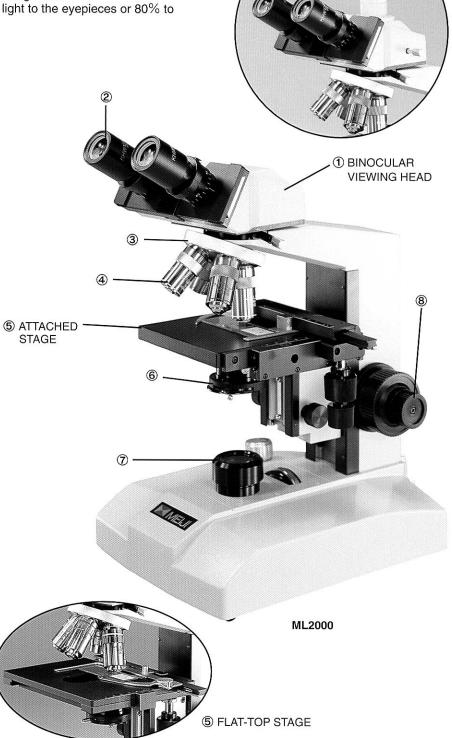
An Achromatic, N.A. 1.25 substage condenser with iris diaphragm and filter tray is offered as standard equipment.

⑦ ILLUMINATOR

A built-in Koehler illuminator with field iris covers all aperture and field filling requirements from 4X to 100X objectives. A 6V 30W halogen lamp with a variable intensity controls is provided as standard equipment.

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

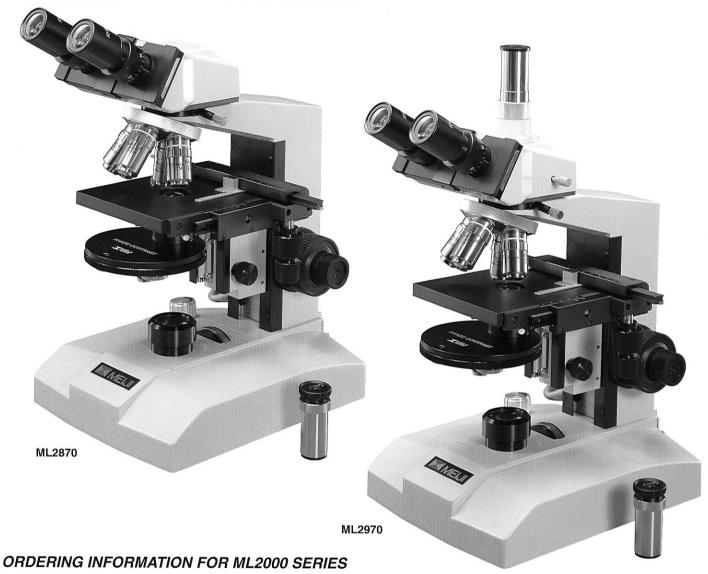
VIEWING HEAD

SIZE AND WEIGHT

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



PHASE CONTRAST MICROSCOPES



MODEL	BODY	EYEPIECES (DIN)	OBJECTIVES (DIN)	MECHANICAL STAGE	CONDENSER	ILLUMINATOR
ML2000	Binocular	KHW10X, 20mm f.o.v.	S.Flat 4X, 10X, S40X, S100X oil	Attached (right hand control)	Achromatic N.A. 1.25 with Blue filter	Koehler 6V 30W Halogen
ML2100	Trinocular					
ML2200	Binocular		SM Semi Plan 4X, 10X, S40X, S100X oil			
ML2300	Trinocular					
ML2400	Binocular			Flat-top, 80mm x 52mm movement (right hand control)		
ML2500	Trinocular					
ML2600	Binocular		Planachromat 4X, 10X, S40X, S100X oil			
ML2700	Trinocular					
ML2855	Binocular	with centering telescope	Achromat Phase 10X, S20X, S40X, S100X oil	Attached (right hand control)	Zernike type Phase condenser N.A.1.25 with green filter	
ML2955	Trinocular					
ML2870	Binocular		BF Semi Plan Phase 10X, S20X, S40X, S100X oil		Zernike type Phase condenser N.A.1.25 with green interference filter	
ML2970	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 ML2000 series microscope with left hand control mechanical stage (For instance: Model ML2200L).





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 20X, N.A. 0.40 MA698 BF Semi Planachromat Phase objectives 40X, N.A. 0.65 MA699 BF Semi Planachromat Phase objectives 100X, N.A. 1.25 oil MA458 Centering telescope to check phase annulus

MA759 Green interference filter, 29.8mm diameter.

The unit is equipped in Models: ML2870 and ML2970.

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: ML2855 and ML2955.

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 head MA602 Inclined Binocular head MA603 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)



ML2000 Series LABORATORY MICROSCOPES

COMPONENTS AND ACCESSORIES

ACHROMAT OBJECTIVES

 MA482
 S.Flat achromat 4X, N.A. 0.10, W.D.20.0mm

 MA483
 S.Flat achromat 10X, N.A. 0.25, W.D.6.6mm

 MA484
 S.Flat achromat S20X, N.A. 0.40, W.D.3.1mm

 MA485
 S.Flat achromat S40X, N.A. 0.65, W.D.0.4mm

 MA486
 S.Flat achromat S60X, N.A. 0.85, W.D.0.2mm

 MA487
 S.Flat achromat S100X, N.A. 1.25, W.D.0.13mm

SM SEMI PLANACHROMAT OBJEITIVES

MA611SM Semi Plan 4X, N.A. 0.10, W.D.19.83mmMA612SM Semi Plan 5X, N.A. 0.10, W.D.19.83mmMA613SM Semi Plan 10X, N.A. 0.25, W.D.6.23mmMA614SM Semi Plan S20X, N.A. 0.40, W.D.3.13mmMA615SM Semi Plan S40X, N.A. 0.65, W.D.0.43mmMA616SM Semi Plan S60X, N.A. 0.85, W.D.0.23mmMA617SM Semi Plan S100X, N.A. 1.25., oil, W.D.0.12mm



SM SEMI PLAN OBJECTIVES

FILTERS

MA196 ND2 Neutral density filter, 29.8mm diameter MA197 ND8 Neutral density filter, 29.8mm diameter

MA289/05 Blue clear filter, 29.8mm diameter
MA290/05 Green clear filter, 29.8mm diameter

MA759 Green interference filter, 29.8mm diameter

MA291 Polarizing filter, 29.8mm diameter

BF SEMI PLANACHROMAT OBJEITIVES

BF Semi Plan 4X, N.A. 0.10, W.D.19.83mm MA690 **MA691** BF Semi Plan 10X, N.A. 0.25, W.D.6.23mm MA692 BF Semi Plan S20X, N.A. 0.40, W.D.3.1mm **MA693** BF Semi Plan S40X, N.A. 0.65, W.D.0.43mm MA694 BF Semi Plan S50X, oil, N.A. 0.95, W.D.0.25mm **MA696** BF Semi Plan S100X, N.A. 1.25., oil, W.D.0.15mm MA811 BF Semi Plan S50X, N.A. 0.95, oil, with iris, W.D.0.24mm **MA813** BF Semi Plan S100X, N.A. 1.25., oil, with iris, W.D.0.15mm



BF SEMI PLAN OBJECTIVES

MISCELLANEOUS COMPONENTS

MA326 Spare bulb 6V 30W halogen

MA327 Fuse 3A

MA609/05 Wooden carrying case

MA608 Polarizer set (Polarizer to fit filter

tray/analyser to fit viewing head)

MA700 Immersion oil

MA701 Dust cover

EYEPIECE MICROMETERS (FOR USE WITH MA407 EYEPIECE)

MA284 Cross-line reticule, 21mm diameter

MA255 Eyepiece micrometer, 10mm divided into 100 units, 21mm diameter

MA256 Eyepiece micrometer 5mm divided into 100 units, 21mm diameter

MA283/05 10mm square divided into 100 parts, 1.0mm square, 21mm diameter

MA540 Cross-line with 0.1mm graduations, 21mm diameter

MA254/05 Walton and Beckett reticule 21mm diameter



MA284 Cross-line



MA255 10mm in 100 parts



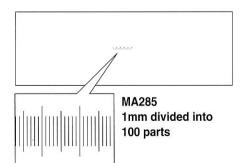
MA256 5mm in 100 parts



MA283/05 10mm square in 100 square

STAGE MICROMETERS

MA285 Objective micrometer, 0.01mm ruling
MA286 0.04" divided into 40 units, 0.001"





ML2000 Series LABORATORY MICROSCOPES

ACCESSORIES

VIDEO EQUIPMENT

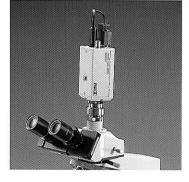
CK3100N CCD Color TV camera, 1/3"CCD, 450 lines of resolution, NTSC system with DC12V adapter

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

"C"mount adapter MA151/10

(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 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 Evepiece

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



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

Adapter ring for CANON EOS camera

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

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