

MEL



BRIGHTFIELD PHASE CONTRAST DARKFIELD

ML2000

ML2100

ANED.



ML2000 Serie LABORATORY MICROSCOPI

FEATURES OF ML2000 SERIES

(1) VIEWING HEADS

1 TRINOCULAR Available with standard binocular heads or trinocular heads: VIEWING HEAD 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.

5 ATTACHED

STAGE

(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.

6 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.

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ML2000

⑤ FLAT-TOP STAGE

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 1 BINOCULAR **VIEWING HEAD**





PHASE CONTRAST MICROSCOPES

ML2870

ML2970

ORDERING INFORMATION FOR ML2000 SERIES

MODEL	BODY	EYEPIECES (DIN)	OBJECTIVES (DIN)	MECHANICAL STAGE	CONDENSER	ILLUMINATOR
ML2000	Binocular		S.Flat 4X, 10X, S40X, S100X oil	Attached	Achromatic N.A. 1.25 with Blue filter	Koehler 6V 30W Halogen
ML2100	Trinocular	KHW10X, 20mm f.o.v.				
ML2200	Binocular			(right hand control)		
ML2300	Trinocular		SM Semi Plan 4X, 10X, S40X, S100X oil			
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		Achromat Phase 10X, S20X, S40X, S100X oil	Attached (right hand control)	Zernike type Phase condenser N.A.1.25 with green filter	
ML2955	Trinocular	with centering telescope				
ML2870	Binocular		BF Semi Plan Phase 10X, S20X, S40X, S100X oil		Zernike type Phase condenser	
ML2970	Trinocular			N.A.1.25 with green interference filter		

• 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 unitt 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:

- Zernike type N.A. 1.25 Phase condenser in turret mount, MA716 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
- BF Semi planachromat S100X, N.A. 1.25 oil, with iris MA813 diaphragm
- MA430 S.Plan objectives S100X oil, 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, Eve Relief 22mm (ea) MA408 DIN HWF15X, Field No.12.2, Eye Relief 15mm (ea) MA409 DIN HWF20X, Field No.9, Eye Relief 9mm (ea)

Darkfield condenser and objectives with iris diaphragm















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

MA611 SM Semi Plan 4X, N.A. 0.10, W.D.19.83mm MA612 SM Semi Plan 5X, N.A. 0.10, W.D.19.83mm MA613 SM Semi Plan 10X, N.A. 0.25, W.D.6.23mm MA614 SM Semi Plan S20X, N.A. 0.40, W.D.3.13mm MA615 SM Semi Plan S40X, N.A. 0.65, W.D.0.43mm MA616 SM Semi Plan S60X, N.A. 0.85, W.D.0.23mm MA617 SM 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

MA690	BF Semi Plan 4X, N.A. 0.10, W.D.19.83mm
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

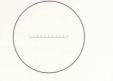
Spare bulb 6V 30W halogen
Fuse 3A
Wooden carrying case
Polarizer set (Polarizer to fit filter tray/analyser to fit viewing head)
Immersion oil
Dust cover

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	

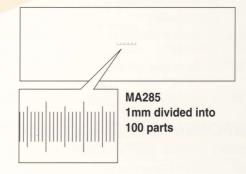






STAGE MICROMETERS MA285 Objective micrometer, 0.01mm ruling

MA286 0.04" divided into 40 units, 0.001"



MA284 Cross-line

MA255 10mm in 100 parts 5mm in 100 parts

MA256

MA283/05 10mm square in 100 square





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



DIGITAL CAMERA ADAPTERS



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)

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

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)

3. T-2 Adapter Ring

Agent :

- 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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