

Biological Microscopes - MT4000 Series

Meiji Techno's university grade upright microscope line is the new and cost-effective **MT4000 Series Biological Microscopes**. The MT4000 Series employs all new and improved Plan optics. Meiji Techno's **ICOS™** (Infinity Corrected Optical System) makes the study of mounted specimens fast and easy while delivering an excellent cost-to-performance ratio. The MT4000 Series features include:

- Computer Aided Design
- All New Infinity Corrected Optics
- Ergonomically positioned controls
- Comfortable Siedentopf viewing heads
- Ergonomic Binocular Head Available
- 30W Halogen for Phase Contrast Models and LED Illumination for Brightfield Models
- **Brightfield, darkfield and phase contrast** observation modes available



VIEWING HEADS

Model MA815/05 is the Siedentopf-type binocular head and Model MA816/05 is the trinocular head for camera integration. Each head has the eyetubes inclined at 30° with the left eyetube having graduated diopter settings. The interpupillary distance is adjustable between 53mm - 75mm. An 80/20 beamsplitter for the trinocular tube can be engaged for photo work. An optional ergonomic binocular viewing head adjustable vertically 10 to 50 degrees is also available.

EYEPIECES

10X Widefield High Eyepoint eyepieces F.N.20 are standard, and 15X and 20X eyepieces are available as an option. A Widefield High Eyepoint 10X focusable eyepiece that accepts 21mm reticules is also available.

OBJECTIVE CHANGER

The smooth-operating, ball bearing mounted, quintuple nosepiece provides effortless objective changes.

OBJECTIVES

Meiji Techno offers an assortment of Plan Infinity Corrected objectives for Brightfield, Darkfield and Phase Contrast observation modes.

STAGE

Ceramic coated left or right-handed, flat top stage measures 171mm x 115mm and travels 78mm(X) x 52mm(Y). Ergonomically positioned coaxial drop down controls.

CONDENSER

New design Abbe 1.25 NA Condenser in quick change dovetail mount

ILLUMINATION

Powerful white LED or 30 watt halogen illumination provides enhanced image quality and brightness for the observation of specimens and photomicroscopy.



MT4000 Series Brightfield Models

Model	Head	Illumination	Eyepieces	Objectives	Stage	Condenser
MT4200L	Bino.	LED Illumination	KHW10x FN20	Plan 4x, 10x, 40x, 100x oil	Ceramic Coated Fixed flat-top left or right-handed controls	Abbe NA 1.25 in dovetail mount
MT4300L	Trino.					
MT4200H	Bino.	30W Halogen Illumination	KHW10x FN20	Plan 4x, 10x, 40x, 100x oil	Ceramic Coated Fixed flat-top left or right-handed controls	Abbe NA 1.25 in dovetail mount
MT4300H	Trino.					

MT4000 Series Phase Contrast Models *

Model	Head	Eyepieces	Objectives	Stage	Condenser	Illumination
MT4210L	Bino.	KWH10x FN20	Plan 4X, S.Plan Ph10x, S.Plan Ph40x	Ceramic Coated Fixed flat-top	Turret Type NA 1.25	LED Illuminator
MT4310L	Trino.					
MT4210H	Bino.	KWH10x FN20	Plan 4X, S.Plan Ph10x, S.Plan Ph40x	Ceramic Coated Fixed flat-top	Turret Type NA 1.25	6V 30W halogen
MT4310H	Trino.					

* Centering telescope is included with phase models.

MT4000 Series Components & Accessories

Viewing Heads

Part Number	Description
MA815/05	Siedentopf type binocular head. 30 degree inclination, 23.2mm \varnothing eyetubes. (MT4200L, MT4200H, MT4210H)
MA816/05	Siedentopf type trinocular head. 30 degree inclination, 23.2mm \varnothing eyetubes. (MT4300L, MT4300H, MT4310H)
MA957/05	Ergonomic binocular head. Adjustable inclination, 23.2mm \varnothing eyetubes. (MT4000 Series only)

Eyepieces

Part Number	Description
MA407	KHW10X compensating eyepiece 23.2mm \varnothing , FN20 (standard) (accepts 21mm reticle)
MA408	HWF15X Widefield High Eyepoint eyepiece 23.2mm \varnothing , FN12.2 (optional) (no reticle mount)
MA409	HWF20X Widefield High Eyepoint eyepiece 23.2mm \varnothing , FN9 (optional) (no reticle mount)
MA413	HWF10X-F Widefield High Eyepoint <u>focusing</u> 23.2mm \varnothing , FN20 (optional) (accepts 19mm reticle)
MA406	HWF10X Widefield High Eyepoint 23.2mm \varnothing , FN18 (optional) (accepts 19mm reticle)

Plan Brightfield Objectives - Infinity Corrected - F = 200mm	
MA965	Planachromat 4X objective, NA: 0.10, Working Distance = 15.3mm (included in brightfield and phase models)
MA966	Planachromat 10X, objective, NA: 0.25, Working Distance = 7.3mm (included in brightfield models)
MA968	Planachromat 40X objective, NA: 0.65, Working Distance = 0.72mm (included in brightfield models)
MA969	Planachromat 60X objective, NA: 0.80, Working Distance = 0.23mm (optional)
MA970	Planachromat 100X oil objective, NA: 1.25, Working Distance = 0.14mm (included in brightfield models)
S.Plan Phase Contrast Objectives - Infinity Corrected - F = 200mm	
MA930	S.Plan Ph10X objective, NA: 0.25, Working Distance = 7.3mm (included in phase models)
MA931	S.Plan Ph20X objective, NA: 0.40, Working Distance = 9.1 (optional)
MA932	S.Plan Ph40X objective, NA: 0.65, Working Distance = 0.5mm (included in phase models)
MA933	S.Plan Ph100X oil objective, NA: 1.25, Working Distance = 0.14mm (optional)
Filters	
MA861/05	Green interference filter 40mm unmounted (546nm)
MA856/05	Blue filter, LB100, 40mm unmounted
MA857/05	Green filter, clear, 40mm unmounted
MA858/05	ND25 Neutral density filter 40mm unmounted (transmission: 25%)
Misc. Parts & Accessories	
MA917R	Ceramic Coated Flat Top Stage 171mm x 115mm, 78mm(X) x 52mm(Y) travel with right handed drop down coaxial controls. (included)
MA917L	Ceramic Coated Flat Top Stage 171mm x 115mm, 78mm(X) x 52mm(Y) travel with left handed drop down coaxial controls. (included, ordered as option)
MA958	Photo/Video Attachment for MA957/05 Ergo Head
MA598	Replacement Finger Assembly for MA917R & MA917L (included)
MA676	Attachable Clinical Finger Assembly for MA917R & MA917L
MA809/10	Replacement 115V AC Power cord with plug (USA)
MA809/20	Replacement 220V AC Power cord with plug (Eurocord)
MA809/30	Replacement 240V AC Power cord with plug (UK)
MA929	Spare fuse for LED illuminator, 0.5A
MA327	Spare fuse for halogen illuminator, 3A
MA458	Centering Telescope for phase contrast, OD= 23.20mm (included with PC models)
MA913	Six Position Zernike Phase Condenser N.A. 1.25, with iris in dovetail mount. (included with PC models)
MA910	Abbe NA 1.25 Condenser with iris and filter tray in dovetail mount. (included with BF models)
MA915	Optional Polarizing set for MT Series microscope.
MA200	Eyeshield (ea) for MA407 10x eyepieces (included)
MA701	Dust Cover for MT4000 (included)