

Laboratory Microscopes MT5000 Series

Meiji Techno's laboratory grade upright microscope line is the new and cost-effective **MT5000 Series Biological Microscopes**. The MT5000 Series employs all new and improved U.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 MT5000 Series features include:

- Computer Aided Design
- Ergonomically positioned controls
- Comfortable Siedentopf viewing heads
- Your choice and preference in illumination, halogen or LED
- **Brightfield, darkfield and phase contrast** observation modes
- **Optional Ergonomic Binocular Viewing Head Available**



VIEWING HEADS

Model MA815 is the Siedentopf-type binocular head and Model MA816 is the trinocular head for camera integration. Each head has the eyetubes inclined at 30 degrees 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. (100% to eyetubes or 80% to phototube & 20% to the eyetube.) The optional Ergonomic Viewing Head has the inclination adjustable from 10 to 50 degrees to fit any size user.



EYEPIECES

10X Super Widefield High Eyepoint eyepieces F.N.22 are standard, and 15X and 20X eyepieces are available as an option. A Super Widefield High Eyepoint 10X focusable eyepiece that accepts 25mm 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 Planachromat Infinity Corrected objectives for Brightfield, Darkfield and Phase Contrast observation modes.

STAGE

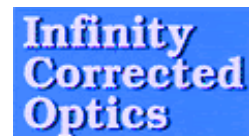
Ceramic coated left or right-handed, flat top stage 191mm x 140mm with travel: 80mm(X) x 52mm(Y). Ergonomically positioned coaxial drop down controls.

CONDENSER

New design Abbe 1.25 NA Condenser with iris diaphragm in dovetail mount.

ILLUMINATION

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



MT5000 Series Brightfield Models

Model	Head	Illumination	Eyepieces	Objectives	Stage	Condenser
MT5200L	Bino.	LED Illumination	SWH10x FN22	U.Plan 4x, 10x, 40x, 100x oil	Fixed flat-top left or right-handed controls	Abbe NA 1.25 with iris in dovetail mount
MT5300L	Trino.					
MT5200H	Bino.	Koehler 30W halogen		U.Plan 4x, 10x, 40x, 100x oil		
MT5300H	Trino.					

MT5000 Series Phase Contrast Models *

Model	Head	Eyepieces	Objectives	Stage	Condenser	Illumination
MT5210H	Bino.	SWH10x FN22	Phase - Plan Ph10x, Ph20x, Ph40x, Ph100x	Fixed flat-top	Zernike Type NA 1.25 in dovetail mount	Koehler 6V 30W halogen
MT5310H	Trino.					

* Centering telescope is included with phase contrast models.

MT5000 Series Components & Accessories

Viewing Heads

Part Number	Description
MA815	Siedentopf type binocular head. 30 degree inclination, 30.0mm \emptyset eyetubes. (MT5200L, MT5200H, MT5210H)
MA816	Siedentopf type trinocular head. 30 degree inclination, 30.0mm \emptyset eyetubes. (MT5300L, MT5300H, MT5310H)
MA957	Siedentopf type Ergonomic binocular head. 10 - 50 degree adjustable inclination, 30.0mm \emptyset eyetubes. (optional) (Fits all MT5000 Series Models)

Eyepieces

Part Number	Description
MA817	SWH10X Super Widefield High Eyepoint eyepiece 30.0mm \emptyset , FN22 (standard) (accepts 25mm reticle)
MA818	SWH15X Super Widefield High Eyepoint eyepiece 30.0mm \emptyset , FN16 (optional) (accepts 19mm reticle)
MA819	SWH20X Super Widefield High Eyepoint eyepiece 30.0mm \emptyset , FN12 (optional) (accepts 19mm reticle)
MA859	SWH10X-F Super Widefield High Eyepoint focusing 30.0mm \emptyset , FN22 (optional) (accepts 25mm reticle)

U.Plan Brightfield Objectives - Infinity Corrected - F = 200mm - Included in Brightfield Models

MA830	U.Planachromat 2.5X objective, NA: 0.07, Working Distance = 5.7mm (optional)
MA831	U.Planachromat 4X objective, NA: 0.10, Working Distance = 17.8mm (included)
MA832	U.Planachromat 10X objective, NA: 0.25, Working Distance = 10.67mm (included)
MA833	U.Planachromat 20X objective, NA: 0.40, Working Distance = 7.29mm (optional)
MA834	U.Planachromat 40X objective, NA: 0.65, Working Distance = 0.5mm (included)
MA835	U.Planachromat 50X oil objective, NA: 0.87, Working Distance = 0.28mm (optional)
MA837	U.Planachromat 100X oil objective, NA: 1.25, Working Distance = 0.23mm (included)

U.Plan Phase Contrast Objectives - Infinity Corrected - F = 200mm - Included in Phase Contrast Models

MA839	U.Planachromat Ph10X objective, NA: 0.25, Working Distance = 10.7mm (included)
MA840	U.Planachromat Ph20X objective, NA: 0.25, Working Distance = 7.29mm (included)
MA841	U.Planachromat Ph40X objective, NA: 0.65, Working Distance = 0.5mm (included)
MA842	U.Planachromat Ph100X oil objective, NA: 1.25, Working Distance = 0.23mm (included)

U.Plan Darkfield Objectives with Iris - Infinity Corrected - F = 200mm	
MA836	U.Planachromat 50X oil with iris objective, NA: 0.87, Working Distance = 0.28mm (optional)
MA838	U.Planachromat 100X oil with iris objective, NA: 1.25, Working Distance = 0.23mm (optional)
Filters	
MA861/05	Green interference filter 40mm un-mounted (546nm)
MA856/05	Blue filter, LB100, 40mm un-mounted
MA857/05	Green filter, clear, 40mm un-mounted
MA858/05	ND25 Neutral density filter 40mm un-mounted (transmission: 25%)
Misc. Parts & Accessories	
MA918R	Ceramic Coated Flat Top Stage with right handed drop down coaxial controls. (included)
MA918L	Ceramic Flat Top Stage with left handed drop down coaxial controls. (included, ordered as option)
MA676	fits MA918R & MA918L (optional)
MA598	Replacement Finger Assembly fits MA918R & MA918L (included)
MA958	Photo/Video attachment with 80/20 beamsplitter, fits MA957 only,
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
MA458/05	Centering Telescope for phase contrast, O.D.= 30.0mm (included in PC models)
MA913	Six Position Zernike Phase Condenser, darkfield stop & blocking stop with iris in dovetail mount. (included in PC models)
MA910	Abbe NA 1.25 Condenser with iris diaphragm in dovetail mount. (included in BF models)
MA910/10	Abbe NA 1.25 Condenser with centerable phase annuli in slider for use with 20x and 40x phase objectives, iris diaphragm, and dovetail mount. (optional)
MA910/15	Abbe NA 1.25 Condenser with darkfield stop in slider for use with 20x and 40x brightfield objectives, iris diaphragm, and dovetail mount. (optional)
MA911	Achromatic NA 1.25 Condenser with iris diaphragm in dovetail mount. (optional)
MA976	Abbe NA 1.25 Condenser with swing out top lens and iris diaphragm in dovetail mount. (optional) For use with low power scanning objective, MA830 (optional)
MA914	Darkfield NA 1.25 Condenser in dovetail mount. (optional)
MA915	Polarizing set for MT5000 Series microscope. (optional)
MA906	Eyeshield (ea) for MA817 10x eyepieces (included)
MA701	Dust Cover for MT5000 (included)