

**MT4000 Series Biological microscope**

- Compact space saving footprint
- Infinity corrected optical system (ICOS™) with all newly designed optics
- Comfortable Siedentopf-type binocular and trinocular viewing heads
- Optional ergonomic tilting binocular head – adjustable vertically from 10 to 50
- Ceramic coated stage with ergonomically placed low position drop down control
- Low positioned ergonomic coaxial focus control
- Smooth operating ergonomic quintuple nosepiece
- Brightfield and phase contrast observation modes available
- Super bright LED Koehler illumination
- Integrated 30-watt halogen Koehler transmitted illumination system on selected brightfield and phase contrast models
- Abbe and Zernike phase contrast condensers available
- Integrated automatic voltage sensing power supply with localized power cordset transmitted light models
- Wide range of filters and accessories



Specification						
Model	Body	Objectives	Eyepieces	Stage	Condenser	Illuminator
MT4200L	Binocular	Plan: 4X, 10X, S40X, S100X oil	KHW10X F.N.20 (O.D.23.2mm)	Ceramic Coated Flat-top	Abbe type N.A.1.25	LED illuminator Koehler
MT4300L	Trinocular				Abbe type N.A.1.25 with blue filter	6V 30W halogen Koehler
MT4200H	Binocular	Plan: 4X, S Plan phase: 10X, S40X with centering telescope			Zernike type Phase N.A.1.25 With green filter	LED illuminator Koehler
MT4300H	Trinocular				6V 30W halogen Koehler	
MT4210L	Binocular					
MT4310L	Trinocular					
MT4210H	Binocular					
MT4310H	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 MT4000 Series microscope with left hand control mechanical stage. For instance, MT4200-L

**MT5000 Series Biological Microscope**

- Super widefield 10X high eyepoint eyepieces, F.N.22 are standard
- Available with comfortable Siedentopf type binocular or trinocular viewing
- Tilting ergonomic binocular head – adjustable vertically from 10 ~ 50 (Optional)
- Smooth-operating ball bearing quintuple nosepiece provides effortless objective changes
- New improved U. Plan infinity corrected objectives
- 191mm X 128mm ceramiccoated left or right-handed, flat top mechanical stage
- Newly designed Abbe 1.25 N.A. condenser in quick change dovetail mount
- Choice if LED or 30 watt halogen illumination with automatic voltage sensing power supply
- New improved design, smooth operating adjustable field iris
- Brightfield, darkfield, phase contrast and polarized light modes available



Specification					
Model	Body	Objective	Eyepieces	Condenser	Illuminator
MT5200L	Binocular	U Plan: 4X, 10X, S40X, S100X oil	SWH10X F.N.22 (O.D.30mm)	Abbe N.A.1.25	LED Koehler
MT5300L	Trinocular				30W halogen Koehler
MT5200H	Binocular				
MT5300H	Trinocular				

Specification					
Model	Body	Objectives	Eyepieces	Condenser	Illuminator
MT5210L	Binocular	U Plan Phase: Ph10X, Ph20X, Ph40X, Oh100X oil	SwH10X F.N.22 (O.D.30mm)	Zernike type Phase N.A.1.25	LED Koehler
MT5310L	Trinocular				30W halogen Koehler Illuminator
MT5210H	Binocular				
MT5310H	Trinocular				

NOTE: All phase contrast models include centering telescope (O.D. 30mm)



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## MT6000 Series Epi-Fluorescent Laboratory Microscopes

The Meiji Techno MT6000 Series epi-fluorescent laboratory microscope have been designed as versatile, modular, ergonomic microscope systems which are ideally suited for use in research, or advanced laboratory applications. Ergonomic placement of controls allows for stress free operation, increased efficiency and maximum productivity.

The MT6000 series offers superior fluorescent images with an emphasis on newly engineered high performance optics based on Meiji Techno's ICOS Optical System (Infinity Corrected Optical System).

- Super widefield 10X high eyepoint eyepieces, F.N.22 are standard
- Available with comfortable Siedentopf type binocular or trinocular head
- Tilting ergonomic binocular head – adjustable vertically from 10 ~ 50 . (Optional)
- New improved Semi Apo Plan infinity corrected objectives for fluorescent imaging.
- Modular six position epi-fluorescent illuminator with six blank positions for filter cubes
- Basic blue, green and excitation filter sets mounted in filter cubes included in all MT6000 models
- Lamphouse for use with 100W Mercury arc lamps
- 191mm X 128mm ceramic coated left or right-handed, flat top mechanical stage
- Newly designed Abbe 1.25N.A. condenser in quick change dovetail mount
- 30 watt halogen illumination with automatic voltage sensing power supply for transmitted light use
- New improved design, smooth operating, adjustable field use
- Brightfield, darkfield, phase contrast and polarized light modes available



Specification					
Model	Body	Objectives	Eyepieces	Condenser	Illuminator
MT6200	Binocular (Siedentopf)	Semi Apo F10X F20X F40X F100X oil	SWH 10X F.N.22 (O.D.30mm)	Abbe.N.A. 1.25	Epi-Fluorescent 100W Mercury & 30W transmitted halogen, Koehler
MT6300	Trinocular (Siedentopf)				

## Accessories

### 35mm photomicroscopy

following three accessories are required for mounting a 35mm SLR camera body

1. One of two MA150 series camera attachments:

**MA150/50** Straight-tube camera attachment

**MA150/60** Camera attachment with built-in focusing eyepiece

2. A photo eyepiece, available in the following magnifications:

**MA512** -2.5X magnification

**MA500** -3.3X magnification (with reticle mount)

**MA508** -5X magnification

The photo eyepiece performs the same function as a standard 35mm camera lens (i.e. focusing the image at the plane of the film)

3. T-2 adapter ring for SLR camera body



Photo eyepiece



T2 Adapter Ring



MA150/50



CK3900



DK3000

## CCD Video & USB 2.0 Digital Cameras

**CK3100N** -CCD Color TV camera. 1/3"CCD, 450TV lines of resolution, NTSC system with DC 12V adapter

**CK3100P** -CCD Color TV camera. 1/3"CCD, 450TV lines of resolution, PAL system with DC 12V adapter

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

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

**DK3000** -3.0 megapixel, color digital video microscopy camera with high speed USB 2.0 interface, 1/2 format 6.5mmX 4.9mm image sensor with 2048 X 1536 resolution



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**ML2000 Series Biological Microscope**

- Available with standard binocular heads or trinocular heads:
- Inclined at 30°, rotatable through 360°
- Dual graduated diopter eyetubes with interpupillary adjustments of 52mm to 72mm
- Paired DIN KHW10X with 20mm field of view, 22mm eye relief
- Smooth operating, revolving quadruple ball bearing nosepiece
- S. Flat Achromats: 4X, 10X, S40X and S100X (oil)(DIN)
- 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 drop-down coaxial controls and a detachable specimen guide
- Coaxial coarse and fine focusing controls with graduation reading 2 microns per division. Incorporates tension adjustment and safely Auto-focus stop unit
- A 6V 30W halogen lamp with a variable intensity controls is provided as standard equipment
- Optional accessory: eyepieces



ML2200 binocular biological microscope



ML2300 trinocular  
A sliding beam splitter directs 100% of the light to the eyepieces or 80% to the camera and 20% to the eyepiece

Specification						
Model	Body	Eyepieces	Objectives (DIN)	Mechanical stage	Condenser	Illuminator
ML2200	Binocular	KHW10X,	SM Semi Plan 4X, 10X,	Attached (right hand control)	Achromatic N.A. 1.25 with Blue filter	Koehler 6V 30W Halogen
ML2300	Trinocular	20mm f.o.v.	S40X, S100X oil			

**TC5000 Series Inverted Biological Microscope**

- Optical System:** All microscopes come standard with an infinity corrected optical design (F=200)
- Viewing Heads:** Units are supplied with either a standard Siedentopf type binocular head inclined at 30° or a trinocular Siedentopf head inclined at 45°. Interpupillary distance is adjustable from 53mm to 75mm. A graduated diopter adjustment is provided as a standard feature on the left eye-tube of all units.
- Eyepieces:** Paired SWH10X, widefield, high eye-point eyepieces, F.N.22, with a 25mm reticle mount is standard on all units. Optional SWH15X, SWH20X and SWH10X-F focusing eyepieces are available
- Nosepiece:** Quintuple, side facing nosepiece, with positive precision click stops
- Objectives:** TC Planacromat, TC Planachromat Phase or TC Planachromat fluorescence objectives are provided on respective models
- Plain Stage:** A 180mm(X) X 245mm(Y) plain stage with replaceable glass insert with 45mm opening
- Illumination:** All units come equipped with a 6V/30W halogen lamp. An aspheric condenser lens, a diffusion filter and heat absorbing filter are also incorporated into the lamphouse. A lever type iris diaphragm is provided for aperture control
- Condenser:** All microscopes come equipped with an EKWD (extra long working distance) condenser, N.A.0.30, W.D.73mm. Optional condenser: N.A.0.55, W.D.20.5mm is available for more demanding work with 40X objectives
- Photo port:** All models are equipped with a front mounted camera port suitable for CCD, 35mm, or digital cameras. Optional camera adapters are available to facilitate a wide range of camera and video equipment



Specification					
Model	Body	Objectives	Eyepiece(s)	Condenser	Illuminator
TC5100	Binocular	TC Plan LWD 10X	SWH10X (F.N.22)	N.A.0.30	Koehler by 6V 30W Halogen, w/o Iris
TC5200	Trinocular	TC Plan LWD 20X	(2pcs)	W.D.73mm	
TC5300	Binocular	TC Plan Phase LWD 10X	SWH10X (F.N.22)	N.A.0.30	Koehler by 6V30W Halogen, w/o Iris Epi-Fluorescent Attachment Mercury 100W Blue and Green Excitation filter sets
TC5400	Trinocular	LWD 20X	[Centering Telescope]	W.D.73mm w/Phase annuli on Slider	
TC5500	Binocular	TC Plan Fluorescent LWD 10X	SWH10X (F.N.22)	N.A.0.30	
TC5600	Trinocular	LWD 20X	(2pcs)	W.D.73mm	



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