

Infinity Corrected Optical System

# MT4000D SERIES

BRIGHTFIELD DERMATOLOGY BIOLOGICAL COMPOUND MICROSCOPES



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Meiji Techno's Dermatology Series is part of our Preconfigured Compound Biological Microscope Series, specifically designed for use in dermatology practices. The MT4000D Series is an ideal solution for clinical environments, particularly for dermatology clinics with in-house laboratory capabilities. This microscope is well-suited for both new and experienced dermatologists looking for a reliable, practical instrument. It features a wide field of view, a smooth-operating mechanical stage, and a complete set of Infinity Corrected Planachromat Objectives, including U. Planachromat 4X, 10X, 20X, 40X, and S100X (oil immersion).

The MT4000D also includes an Abbe condenser with a numerical aperture of 1.25, along with coarse and fine focus controls featuring a stage lock and tension adjustment. Its transmitted illumination system is available in either LED or Halogen and includes auto-voltage sensing for ease of use.

The MT4200LD Dermatology Series is ergonomically designed, precisely manufactured in Japan and simple to use, this upright Binocular Biological Compound LED Microscope provides versatility and high quality images for Brightfield observation as you would expect from a Japanese Microscope



## MODULAR DESIGN facilitates ATTACHMENT OF A VARIETY OF ACCESSORIES

Optional Ergonomic tilting binocular and trinocular head  
- Adjustable vertically from 10° to 50°

**INTEGRATED AUTOMATIC VOLTAGE SENSING POWER SUPPLY WITH LOCALIZED POWER CORDSET**  
(TRANSMITTED LIGHT MODELS ONLY)

Low positioned controls allow the operator to work with their forearms relaxed on the working surface so ergonomically placed controls are within easy reach.

**WIDE RANGE OF FILTERS AND ACCESSORIES**



MT4300LD / MT4300HD



**Footprint :** 263 mm(D) x 176mm(W)

**Weight & Overall Dimension :**

**Binocular head** type 390 mm(D) x 410 mm(H)  
x 210 mm(W), 8.0kg **Trinocular head** type 390  
mm(D) x 465 mm(H) x 210 mm(W), 8.7kg

## BRIGHTFIELD BINOCULAR DERMATOLOGY MODELS - QUINTUPLE NOSEPIECE

MODEL	BODY	ILLUMINATOR	EYEPIECES	OBJECTIVES	STAGE	CONDENSER
MT4200LD	BINOCULAR (siedentopf)	LED, 5500k TRANSMITTED ILLUMINATION	KHW 10X F.N. 20 (O.D. 23.2mm) PAIRED	(Bright Field) PLAN APO 1.25X U PLAN 4X U PLAN 10X U PLAN 20X U PLAN 40X	FIXED CERAMIC COATED FLAT-TOP RIGHT HANDED CONTROLS	ABBE N.A. 0.90 WITH SWING OUT TOP LENS
MT4200ELD	BINOCULAR ERGONOMIC (siedentopf)					

## BRIGHTFIELD TRINOCULAR DERMATOLOGY MODELS - QUINTUPLE NOSEPIECE

MODEL	BODY	ILLUMINATOR	EYEPIECES	OBJECTIVES	STAGE	CONDENSER
MT4300LD	TRINOCULAR (siedentopf)	LED, 5500k TRANSMITTED ILLUMINATION	KHW 10X F.N. 20 (O.D. 23.2mm) PAIRED	(Bright Field) PLAN APO 1.25X U PLAN 4X U PLAN 10X U PLAN 20X U PLAN 40X	FIXED CERAMIC COATED FLAT-TOP RIGHT HANDED CONTROLS	ABBE N.A. 0.90 WITH SWING OUT TOP LENS
MT4300ELD	TRINOCULAR ERGONOMIC (siedentopf)					

Provides versatility and  
high quality images  
for Brightfield observation



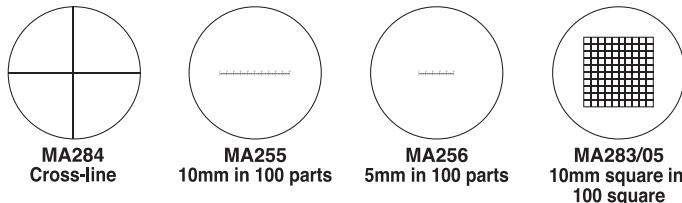
DESIGNED EXCLUSIVELY  
FOR **DERMATOLOGY**  
PRACTICES



## COMPONENTS & ACCESSORIES FOR MT4000 SERIES

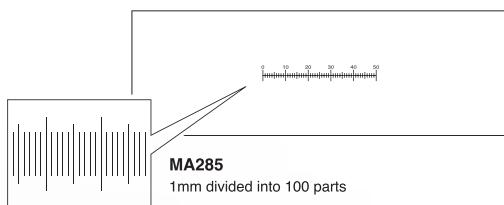
### EYEPIECE MICROMETERS (FOR USE WITH MA407 EYEPIECE)

- MA284** Cross-line reticle, 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 reticle 21mm diameter



### STAGE MICROMETERS

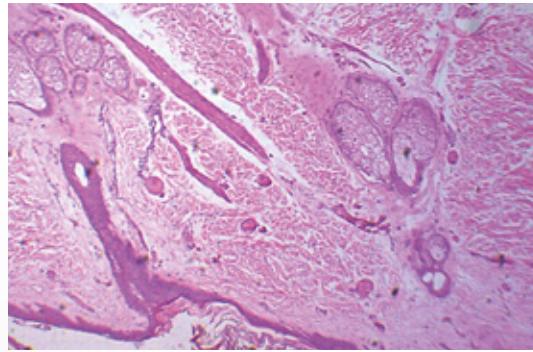
- MA285** Glass micrometer, 0.01mm ruling  
**MA286** Glass micrometer, 0.04" divided into 40 units, 0.001"



MT4300ELV-HD

## HDMI-USB 2.0 CAMERAS WITH 11.8" MONITOR

- HD1000-LITE-M** Affordable Color HD 5MP CMOS 15FPS/ HDMI/ USB 2.0 Camera /Annotation & Measurement Software with 11.8IN HDMI monitor.  
**HD1500T-M** Color HD 6MP CMOS 60FPS/ HDMI/ USB 2.0 Camera/Annotation & Metric Measurement Software with 11.8IN HDMI monitor.  
**HD1500MET-M** Color HD 6MP CMOS 60FPS/ HDMI/ USB 2.0 Camera/Annotation & Metric Measurement Software with 11.8IN HDMI monitor.  
**HD1500MET-AF-M** Autofocus HD 6MP CMOS 60FPS/ HDMI/ USB 2.0 Camera/Annotation & Metric Measurement Software with 11.8IN HDMI monitor.



HUMAN SKIN, CROSS-SECTION CAPTURED BY MT4300LD

## 35mm PHOTOMICROSCOPY

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

### 1. The appropriate T-2 adapter ring for your SLR camera body

- |                      |   |
|----------------------|---|
| <b>T2-1</b> Canon    | <b>T2-6</b> Olympus                     |
| <b>T2-2</b> Minolta  | <b>T2-7</b> Contax, Yashika             |
| <b>T2-3</b> Pentax K | <b>T2-8</b> Konica                      |
| <b>T2-4</b> Pentax S | <b>T2-9</b> Canon Eos                   |
| <b>T2-5</b> Nikon    | <b>T2-10</b> Minolta Alpha / Maxim 2000 |

These adapter rings attach directly to your camera body's lens mount.

### 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. One of two MA150 series camera attachments:

- MA150/50** Straight-tube camera attachment  
**MA150/60** Camera attachment with built-in focusing eyepiece

These attachments are used to mount the camera with T2 adapter ring to the photo tube.



Photo Eyepiece



T2 Adapter Ring



MA150/50

MA150/60

## COMPONENTS & ACCESSORIES FOR MT4000 SERIES

### VIEWING HEAD (without eyepieces)

- MA815/05** Binocular head (Siedentopf type, I.P. adjustment 53mm to 75mm graduated diopter on left eyetube (23.2mm I.D. eyetubes). Inclined at 30°. (Included in Model MT4200L, MT4200H & MT4210H)
- MA816/05** Trinocular head (Siedentopf type, I.P. adjustment 53mm to 75mm graduated diopter on left eyetube (23.2mm I.D. eyetubes). Inclined at 30°. (Included in Model MT4300L, MT4300H & MT4310H)
- MA957/05** Ergonomic head, inclination adjustable vertically from 10° to 50° (23.2mm I.D. eyetubes).
- MA958** Photo/Video attachment with sliding 80/20 beam-splitter for attaching video or digital camera to MT Series when MA957/05 Ergonomic head is used.



**MA957/05 ERGONOMIC HEAD**

### EYEPieces

- MA407** KHW10X Compensating eyepiece, Field No. 20, Tube O.D. 23.2mm (21mm reticle mount) (Paired MA407 Eyepieces included in all MT4000 Series models)
- MA407/05** KHW10X Compensating Focusing eyepiece, Field No. 20, Tube O.D. 23.2mm (each) (optional)
- MA408** HWF15X, Widefield eyepiece, Field No. 12.2, Tube O.D. 23.2mm (No reticle mount)
- MA409** HWF20X, Widefield eyepiece, Field No. 9, Tube O.D. 23.2mm (No reticle mount)
- MA406** HWF10X Widefield High-eyepoint eyepiece, Field No. 18, Tube O.D. 23.2mm (19mm reticle mount)
- MA413** HWF-10X Focusing eyepiece with reticle mount, Field No. 18, Tube O.D. 23.2mm (19mm reticle mount)



**MA834 U. PLAN 40X OBJECTIVE**



**MA913 - ABBE CONDENSER**



**MA856/05 LB100 BLUE CLEAR FILTER UNMOUNTED**



**Zernike Phase Set**

PHASE CONTRAST SET, comprising:  
Zernike Phase condenser, S Plan Phase Objectives 10X, 20X, 40X, 100X, Centering Telescope (MA458) and Green filter (MA857/05)

### U PLAN OBJECTIVES (Infinity Corrected F=200mm) Included in models

**MT4200LV, MT4300LV, MT4200HV, MT4300HV**

- MA830** U Plan Objective 2.5X, N.A. 0.07 W.D. 5.7mm, F.N. 24 (Optional)
- MA831** U Plan Objective 4X, N.A. 0.10 W.D. 25.8mm, F.N. 24 (Included)
- MA832** U Plan Objective 10X, N.A. 0.25 W.D. 10.7mm, F.N. 24 (Included)
- MA833** U Plan Objective 20X, N.A. 0.40 W.D. 7.29mm, F.N. 24 (Included)
- MA834** U Plan Objective 40X, N.A. 0.65 W.D. 0.5mm, F.N. 24 (Included)
- MA969** Plan Objective 60X, N.A. 0.80 W.D. 0.23mm, F.N. 24 (Optional)
- MA837** U Plan Objective 100X, N.A. 1.25 oil, W.D. 0.23mm, F.N. 24 (Included)

### U PLAN PHASE CONTRAST OBJECTIVES (Infinity Corrected F=200mm)

- MA839** U Plan Phase 10X Objective, N.A. 0.25, W.D. 10.7mm (Optional)
- MA840** U Plan Phase 20X Objective, N.A. 0.40, W.D. 7.29mm (Optional)

### CONDENSER

- MA910** Abbe condenser, N.A. 1.25 with iris diaphragm in dovetail mount (Included in Models MT4200LV, MT4300LV, MT4200HV & MT4300HV)
- MA911** Achromatic condenser, N.A. 1.25 with iris diaphragm in dovetail mount
- MA913** Zernike Phase condenser with centerable phase annuli for 10X, 20X, 40X, 100X with brightfield position, darkfield stop for 40X objective, (black-out position for epi-fluorescence on MT6000 Series only) with iris in dovetail mount (Optional for Phase Contrast upgrade)

### POLARIZER

- MA915** Polarizer set for MT4000 Series

### FILTERS

- MA858/05** ND25 Neutral density filter, 44.0mm diameter, unmounted
- MA856/05** LB100 Blue Clear filter 44.0mm diameter, unmounted (Included in Models MT4200H, MT4300H, MT4210H & MT4310H)
- MA857/05** Green filter, clear, 44.0mm diameter, unmounted (Included in Models MT4210H & MT4310H)
- MA861/05** Green interference filter, 44.0mm diameter, unmounted

### STAGES

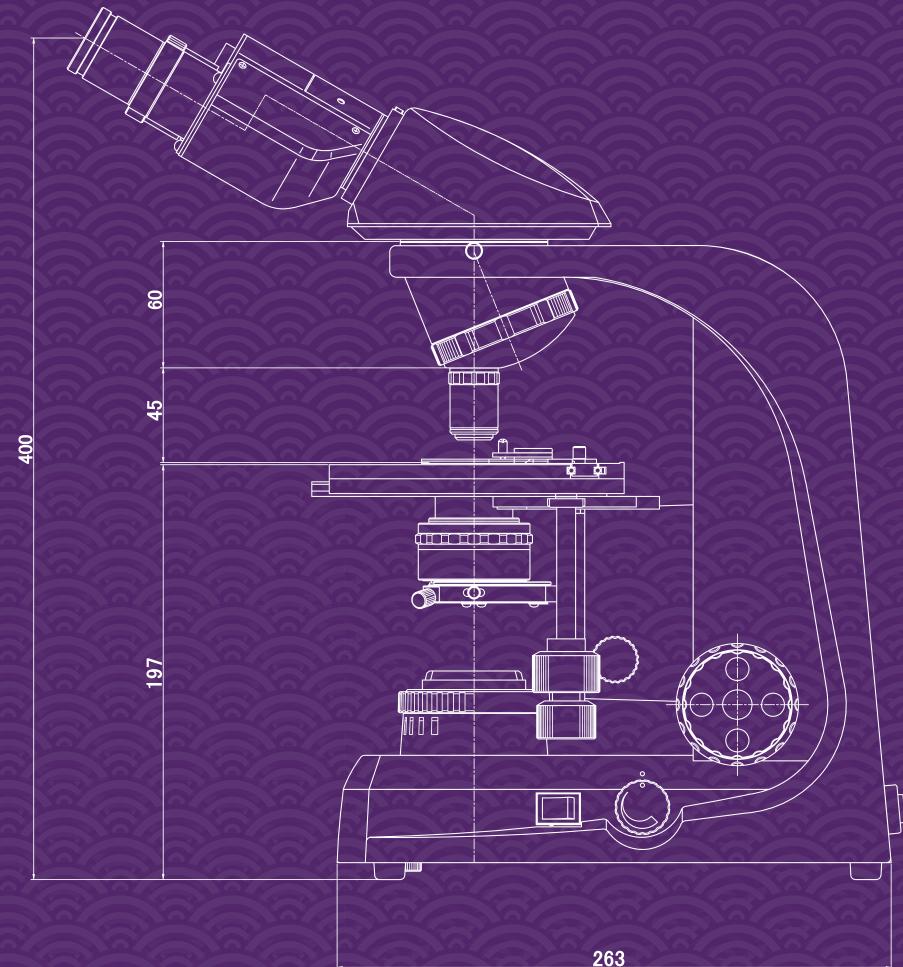
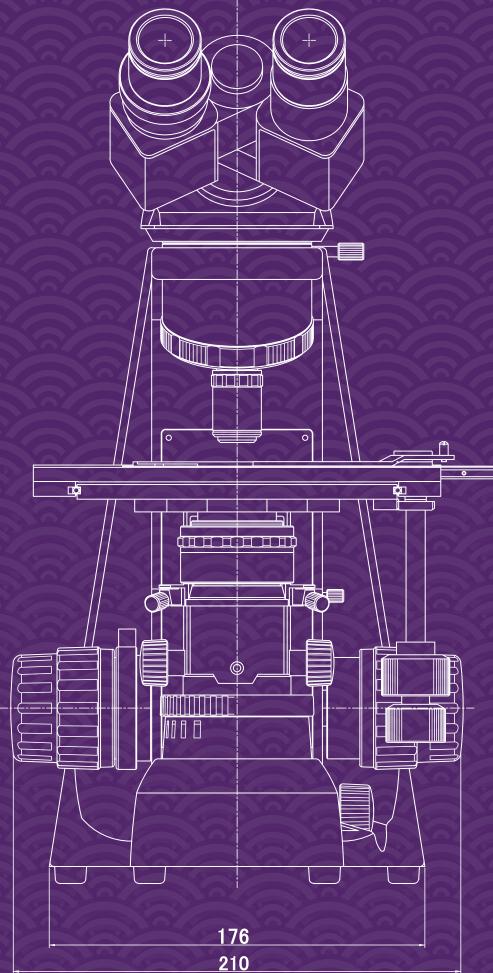
- MA917R** Ceramic coated flat-top stage, 78mm x 52mm, X-Y movement, with right hand drop-down coaxial controls. (Included in all Models)
- MA917L** Ceramic coated flat-top stage, 78mm x 52mm, X-Y movement, with left hand drop-down coaxial controls. (Optional)
- MA598** Attachable finger assembly for MA917R and MA917L

### MISCELLANEOUS

- MA200** Eyeshield for MA407 KHW10X Eyepiece (ea)
- MA326** Spare bulb 6V 30W Halogen lamp
- MA327** Spare 3A Fuse for Halogen illuminator
- MA929** Spare Fuse 0.5A for LED Illuminator
- MA809/10** Removable AC Electric cord with UL plug for 115V models
- MA809/20** Removable AC Electric cord with European plug for 220V models
- MA809/30** Removable AC Electric cord with UK plug for 240V models
- MA701** Dust Cover for MT4000 Series



For further information  
about the MT4000D  
Series, scan this QR code.



Specifications and design subject to change without notice for improvements

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