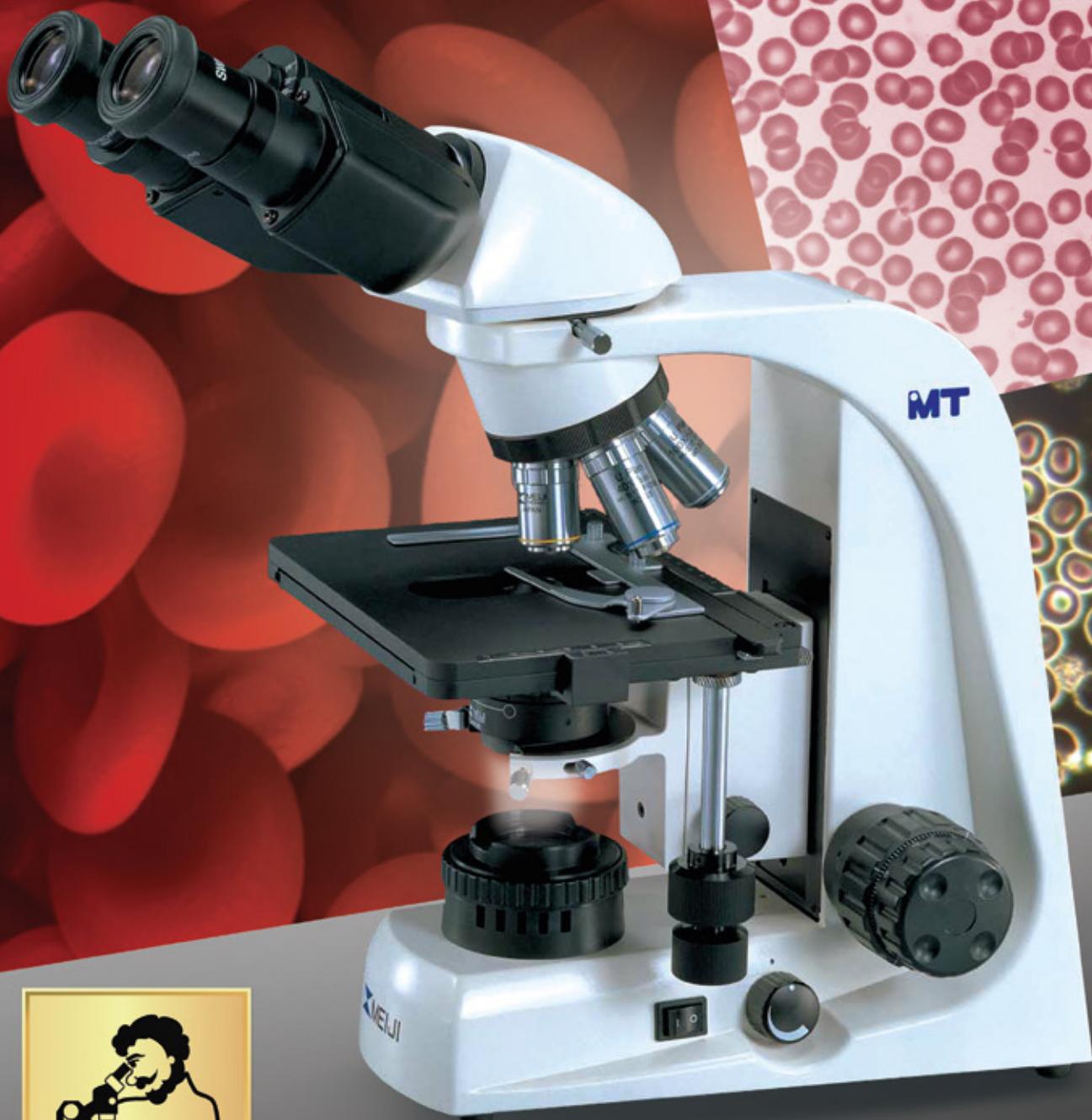


Infinity Corrected Optical System

# MT5000 LBC SERIES

LIVE BLOOD CELL ANALYSIS BRIGHTFIELD & PHASE CONTRAST MICROSCOPES



BRIGHTFIELD/PHASE CONTRAST

# MT5000LBC SERIES

BRIGHTFIELD/ PHASE CONTRAST LIVE BLOOD CELL ANALYSIS MICROSCOPES

**Experience the precision and clarity of the Meiji Techno MT5000LBC Series**—a professional-grade microscope system engineered specifically for Live Blood Cell (LBC) analysis. Designed with holistic practitioners, clinical researchers, and naturopathic professionals in mind, the MT5000LBC combines brightfield and phase contrast modalities in one seamless platform. With advanced Japanese optics, ergonomic controls, and a rugged, vibration-resistant frame, this microscope delivers crystal-clear, real-time imaging of live blood samples with unmatched stability and ease. Whether you're conducting in-depth wellness assessments or teaching live-cell dynamics, the MT5000LBC offers the power, precision, and comfort needed to elevate every session.

The MT5000LBC series offers an outstanding range of features and optical performance with an emphasis on all newly engineered high performance optics based on Meiji Techno's ICOS™ Optical System (Infinity Corrected Optical System). The new optics, provide exceptionally bright, crisp images, with good color rendition and superior flat fields of view.



## MODULAR DESIGN facilitates ATTACHMENT OF A VARIETY OF ACCESSORIES

### HD HDMI/USB 2.0 CAMERA ATTACHMENT

Binocular Head with 30° inclination or Optional Ergonomic tilting binocular and trinocular head - Adjustable vertically from 10° to 50°

### INTEGRATED AUTOMATIC VOLTAGE SENSING POWER SUPPLY WITH LOCALIZED POWER CORDSET

Ergonomic X-Y right handed dropdown coaxial control

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

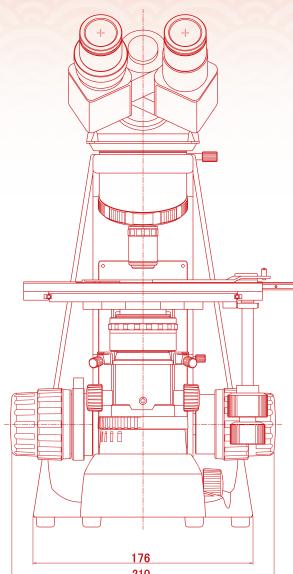
Variable Intensity knob increases or decreases the intensity of the light source. By fine-tuning the intensity, you can balance brightness and contrast to see structures more clearly)

Main power control for the light source. ON and OFF Switch.

**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



(Binocular Phase Contrast Model)  
**MT5210L/LBC and MT5210H/LBC**

#### MT5200/MT5300/LBC PHASE CONTRAST/BRIGHTFIELD MODELS - QUINTUPLE NOSEPIECE

MODEL	BODY	ILLUMINATOR	EYEPIECES	OBJECTIVES	STAGE	CONDENSER
MT5210L/LBC	Binocular	LED ILLUMINATION KOEHLER AUTO VOLTAGE SENSING 110V-240V	KHW 10X F.N. 22 (O.D. 30mm) PAIRED	INFINITY OPTICAL SYSTEM F = 200mm  (Phase Contrast /Bright Field) U PLAN PH10X U PLAN PH40X U PLAN PH100X OIL	CERAMIC COATED FLAT-TOP 190mm X 140mm WITH 80mm x52mm X-Y MOVEMENT RIGHT HANDED DROP DOWN COAXIAL CONTROLS	ZERNIKE TYPE PHASE CONDENSER WITH CENTERABLE PHASE ANNULI FOR 10X, 20X, 40X 100X BRIGHTFIELD POSITION DARKFIELD STOP FOR 40X OBJECTIVE WITH IRIS IN DOVETAIL MOUNT
MT5210EL/LBC	Ergonomic Binocular					
MT5310L/LBC	Trinocular					
MT5310EL/LBC	Ergonomic Trinocular					
MT5210H/LBC	Binocular					
MT5210EH/LBC	Ergonomic Binocular					
MT5310H/LBC	Trinocular					
MT5310EH/LBC	Ergonomic Trinocular					

DESIGNED EXCLUSIVELY  
FOR **LIVE BLOOD CELL**  
PRACTICES



Provides versatility and  
high quality images  
for Brightfield and Phase  
Contrast observation



ERGONOMICALLY DESIGNED  
**MANUFACTURED**  
IN **JAPAN**

## COMPONENTS AND ACCESSORIES FOR MT5000LBC SERIES

### VIEWING HEAD (without eyepieces)

**MA815** Binocular head (Siedentopf type), I.P. adjustment 53mm to 75mm graduated diopter on left eyetube (30.0mm I.D. eyetubes). Inclined at 30°.(Included in Models MT5200L, MT5200H, and MT5210H)

**MA816** Trinocular head (Siedentopf type), I.P. adjustment 53mm to 75mm graduated diopter on left eyetube (30.0mm I.D. eyetubes). Inclined at 30°.(Included in Models MT5300L, MT5300H, and MT5310H)

**MA957** Ergonomic tilting binocular head (Siedentopf type), adjustable from 10° to 50°, I.P. adjustment 53mm to 75mm, graduated diopter on left eyetube (30.0mm 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.



ERGONOMIC HEAD (Tilts 10° to 50°)

### EYEPIECES WITH 30.0MM O.D. TUBE

**MA817** SWH10X, Widefield high eyepoint eyepiece, Field No. 22, Tube O.D. 30.0mm (paired), Included in Models MT5200L, MT5300L, MT5200H, MT5300H, MT5210H and MT5310H)

**MA818** SWH15X, Widefield high eyepoint eyepiece, Field No. 16.0, Tube O.D. 30.0mm (paired)

**MA819** SWH20X, Widefield high eyepoint eyepiece, Field No. 12.0, Tube O.D. 30.0mm (paired)

**MA859** SWH10X-F Focusing eyepiece with reticle mount (w/o reticle) Tube O.D. 30.0mm (paired)

### U PLAN PHASE CONTRAST OBJECTIVES (Infinity Corrected F=200mm) (Included in Model M5210L, MT5310L, MT5210H, MT5310H)

**MA839** U Plan Phase 10X Objective, N.A. 0.25, W.D. 10.7mm (Included in PH Model)

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

**MA841** U Plan Phase 40X Objective, N.A. 0.65, W.D. 7.29mm (Included in PH Model)

**MA842** U Plan Phase100X Oil Objective, N.A. 1.25, W.D. 7.29mm (Included in LBC Models MT5210L, MT5210H MT5310L and MT5310H and Ergonomic Phase models)



MA839 - U PLAN PHASE CONTRAST OBJECTIVE

### ZERNIKE PHASE CONDENSER

**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

### OTHER ZERNIKE COMPONENTS

**MA458/05** Centering Telescope, 30.0mm O.D. (Included in Phase Contrast Models) (Included in models MT5210L, MT5310L, MT5210H, MT5310H and Ergo models)

**MA861/05** Green Interference filter (GIF), 44.0mm diameter, unmounted (Included in models MT5210L, MT5310L, MT5210H and MT5310H and Ergo Phase Contrast models)

### BRIGHTFIELD CONDENSER

**MA910** Abbe condenser, N.A.1.25 with iris diaphragm and filter tray, dovetail mount (Included in all Models)

**MA910/10** Abbe condenser, N.A. 1.25 with iris diaphragm and filter tray, dovetail mount centerable phase annuli in slider for use with 20X and 40X phase objective (optional)

**MA910/15** Abbe condenser, N.A. 1.25 with darkfield stop in slider for use with 20X and 40X brightfield objective with iris diaphragm and dovetail mount.

**MA911** Achromatic condenser, N.A. 1.25 with iris diaphragm and dovetail mount (optional)

**MA976** Abbe condenser, N.A. 090 with swing out top lens, iris diaphragm and dovetail mount, for use with low power scanning objective, MA830 (Optional)



MA861/05 - GREEN INTERFERENCE FILTER

### POLARIZER

**MA915** Polarizer set for MT5000V Series microscopes

**MA915/PT#2** Unmounted 43mm polarizing filter for use with MA1043 Intermediate tube

**MA1043** Intermediate tube with built-in analyzer and compensator slot for MT4000V and MT5000V Series (requires a MA915/PT#2 43mm polarizing filter)

### FILTERS

**MA856/05** LB100 Blue Clear filter 40mm diameter, unmounted (Included in all Halogen illuminator models) (Included with MT5200H, MT5300H, MT5210H & MT5310H)

**MA857/05** Green filter, clear, 40.0mm diameter, unmounted

**MA858/05** ND25 Neutral density filter, 40.0mm diameter, unmounted

**MA861/05** Green interference filter 44.0mm diameter unmounted

### REPLACEMENT STAGES AND COMPONENTS

**MA918R** Ceramic coated flat-top stage, 78mm x 52mm, X-Y movement, with right hand drop-down coaxial controls. (Included in Models MT5200L, MT5300L, MT5200H, MT5300H, MT5310H, and MT5310H)

**MA918L** Ceramic coated flat-top stage, 78mm x 52mm, X-Y movement, with left hand drop-down coaxial controls. (Included in Models MT5200L, MT5300L, MT5200H, MT5300H, MT5310H, and MT5310H)

**MA598** Attachable finger assembly for MA918R and MA918L

**MA676** Attachable clinical specimen holder for MA918R and MA918L



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)

## HDMI-USB 2.0 CAMERAS WITH 11.8" MONITOR

Requires 0.5 CAdapter Model MA151/35/03

**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.

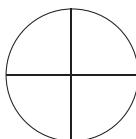


MT5310L/LBC and MT5310H/LBC  
(Trinocular Phase Contrast Model)

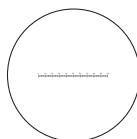
## COMPONENTS AND ACCESSORIES FOR MT5000LBC SERIES

### EYEPIECE MICROMETERS (25MM DIAMETER) FOR USE WITH MA817 SWH10X EYEPIECE)

**MA523** Cross-line reticle, 25mm diameter  
**MA506** 10mm divided into 100 units, 25mm diameter  
**MA509** 5mm divided into 100 units, 25mm diameter  
**MA524** 10mm square into 400 parts, 0.5mm square, 25mm diameter  
**MA510** 10mm square into 100 parts, 1.0mm square, 25mm diameter  
**MA542** Cross-line with 0.1mm graduation, 25mm diameter



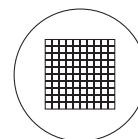
MA523



MA506



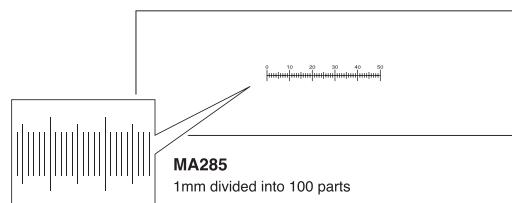
MA509



MA542

### STAGE MICROMETERS

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



MA285  
1mm divided into 100 parts

### MISCELLANEOUS

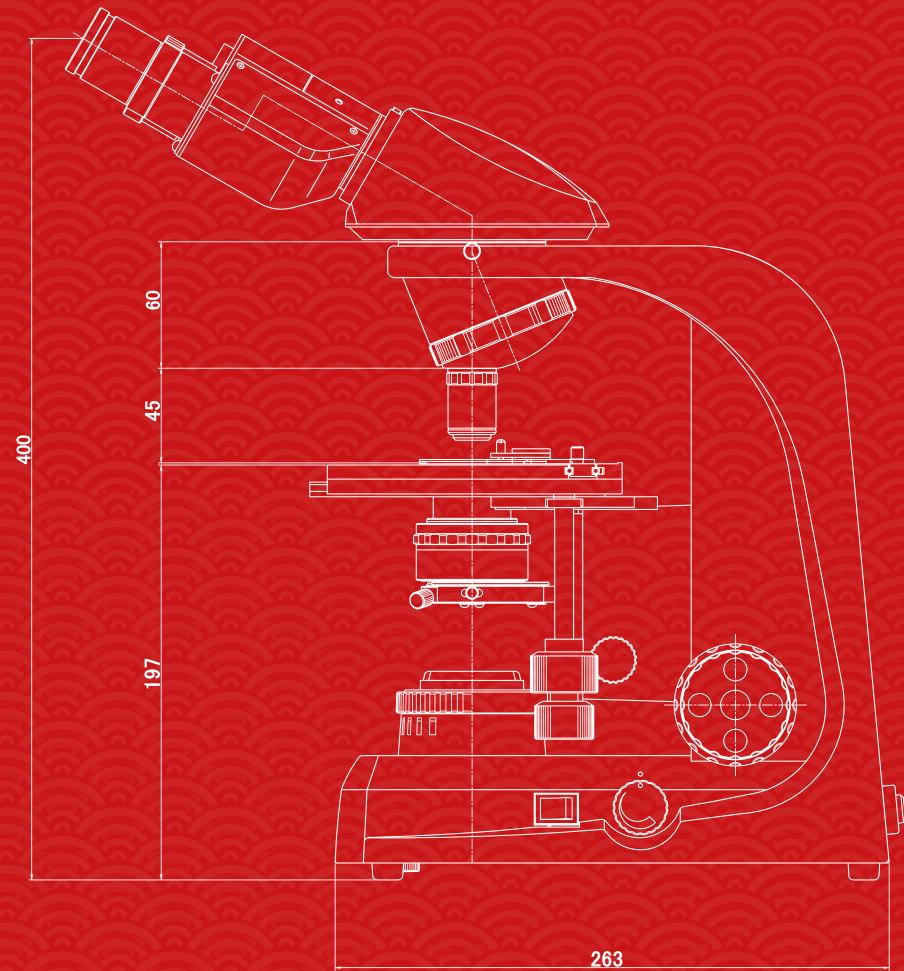
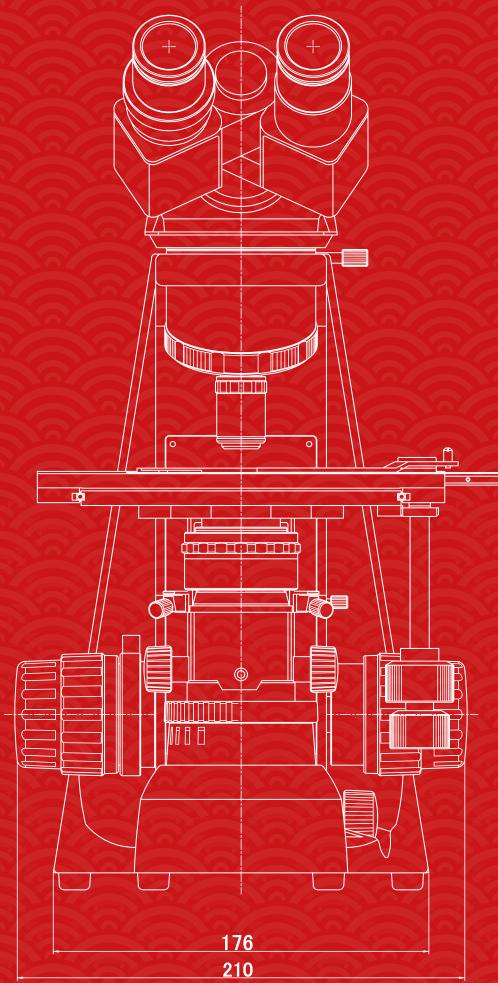
**MA906** Eyeshield for MA817 SWH10X Eyepiece (ea) (Included in all models.)  
**MA326** Spare bulb 6V 30W halogen lamp  
**MA327** Spare Fuse 3A for Halogen illuminator version  
**MA929** Spare Fuse 0.5A for LED illuminator version  
**MA809/10/AC** Removable AC Electric cord with UL plug for 115V models  
**MA809/20/AC** Removable AC Electric cord with European plug for 220V models  
**MA809/30/AC** Removable AC Electric cord with UK plug for 240V models  
**MA701** Dust Cover for MT5000 Series



POLARIZER SET



For further information  
about the MT5000V  
Series, scan this QR code.



Specifications and design subject to change without notice for improvements

Agent:



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ISO9001  
JQA QMA10273



091-A



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