

Infinity Corrected Optical System

# MT5000 SERIES

MEIJI TECHNO BIOLOGICAL COMPOUND MICROSCOPES



MT5200L / MT500H

BRIGHTFIELD/PHASE CONTRAST



# MT5000 SERIES

## MEIJI TECHNO BIOLOGICAL COMPOUND MICROSCOPES

The Meiji Techno MT5000 Series Biological Microscopes 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 MT5000 Series microscopes feature a new computer engineered rigid frame that incorporates low positioned coaxial coarse/fine focus controls and ergonomic stage design for maximum efficiency and comfort while also providing an extremely stable operating platform.

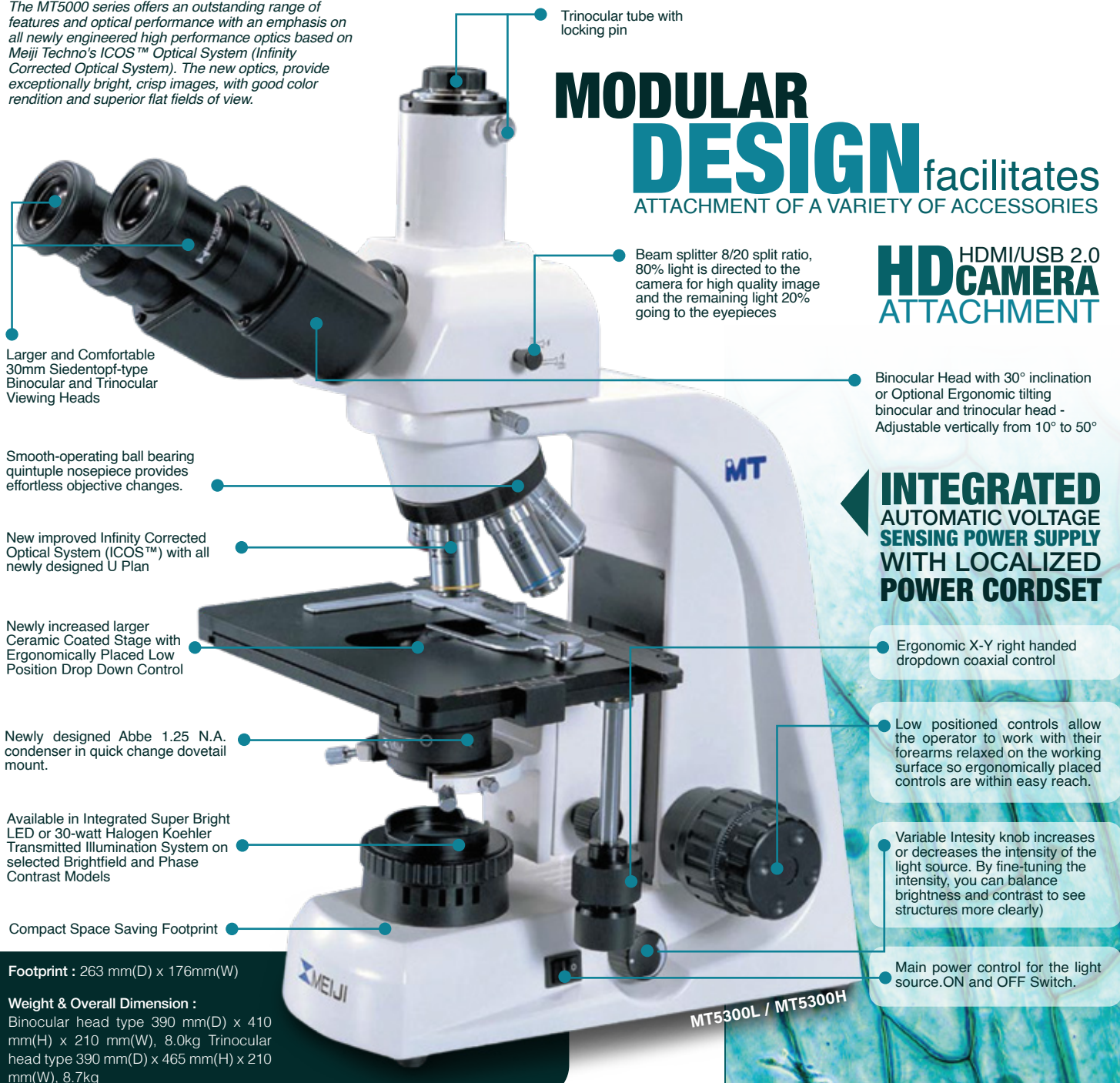
The MT5000 series offers an outstanding range of features and optical performance with an emphasis on all newly engineered high performance optics based on Meiji Techno's ICOS™ Optical System (Infinity Corrected Optical System). The new optics, provide exceptionally bright, crisp images, with good color rendition and superior flat fields of view.



## MODULAR DESIGN facilitates ATTACHMENT OF A VARIETY OF ACCESSORIES

### HD HDMI/USB 2.0 CAMERA ATTACHMENT

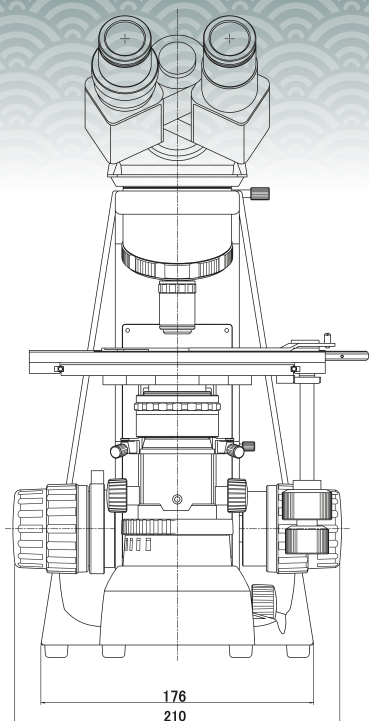
### INTEGRATED AUTOMATIC VOLTAGE SENSING POWER SUPPLY WITH LOCALIZED POWER CORDSET



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



**MT5210L / MT5310H**  
(Binocular Phase Contrast Model)

#### BRIGHTFIELD BINOCULAR AND TRINOCULAR MODEL SYSTEMS

MODEL	BODY	ILLUMINATOR	EYEPIECES	OBJECTIVES	STAGE	CONDENSER
MT5200L	Binocular	LED ILLUMINATION KOEHLER AUTO VOLTAGE SENSING 110V-240V	KHW 10X F.N. 20 (O.D. 23.2mm) PAIRED	INFINITY OPTICAL SYSTEM F = 200mm  (Bright Field) U PLAN 4X U PLAN 10X U PLAN 40X U PLAN 100X OIL	FIXED CERAMIC COATED FLAT-TOP RIGHT HANDED CONTROLS	ABBE N.A. 1.25 WITH IRIS IN DOVETAIL MOUNT
MT5200EL	Ergonomic Binocular					ABBE N.A. 1.25 WITH BLUE FILTER IN DOVETAIL MOUNT
MT5300L	Trinocular					
MT5300EL	Ergonomic Trinocular					
MT5200H	Binocular	KOEHLER V6, 30W HALOGEN AUTO VOLTAGE SENSING 110V-240V	KHW 10X F.N. 20 (O.D. 23.2mm) PAIRED	INFINITY OPTICAL SYSTEM F = 200mm  (Bright Field) U PLAN 4X U PLAN 10X U PLAN 40X U PLAN 100X OIL	FIXED CERAMIC COATED FLAT-TOP RIGHT HANDED CONTROLS	ABBE N.A. 1.25 WITH IRIS IN DOVETAIL MOUNT
MT5200EH	Ergonomic Binocular					ABBE N.A. 1.25 WITH BLUE FILTER IN DOVETAIL MOUNT
MT5300H	Trinocular					
MT5300EH	Ergonomic Trinocular					

#### PHASE CONTRAST / BRIGHTFIELD BINOCULAR AND TRINOCULAR MODEL SYSTEMS

MODEL	BODY	ILLUMINATOR	EYEPIECES	OBJECTIVES	STAGE	CONDENSER
MT5210L	Binocular	LED ILLUMINATION KOEHLER AUTO VOLTAGE SENSING 110V-240V	KHW 10X F.N. 20 (O.D. 23.2mm) PAIRED	INFINITY OPTICAL SYSTEM F = 200mm  (Phase Contrast /Bright Field) U PLAN 4X, U PLAN PH10X, U PLAN PH40X	FIXED CERAMIC COATED FLAT-TOP RIGHT HANDED CONTROLS	ZERNIKE TYPE PHASE N.A. 1.25 WITH GREEN FILTER IN DOVETAIL MOUNT
MT5210EL	Ergonomic Binocular					
MT5310L	Trinocular					
MT5310EL	Ergonomic Trinocular					
MT5210H	Binocular	KOEHLER V6, 30W HALOGEN AUTO VOLTAGE SENSING 110V-240V	KHW 10X F.N. 20 (O.D. 23.2mm) PAIRED	INFINITY OPTICAL SYSTEM F = 200mm  (Phase Contrast /Bright Field) U PLAN 4X, U PLAN PH10X, U PLAN PH40X	FIXED CERAMIC COATED FLAT-TOP RIGHT HANDED CONTROLS	ZERNIKE TYPE PHASE N.A. 1.25 WITH GREEN FILTER IN DOVETAIL MOUNT
MT5210EH	Ergonomic Binocular					
MT5310H	Trinocular					
MT5310EH	Ergonomic Trinocular					



## 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.



Photo Eyepiece



T2 Adapter Ring



MA150/50

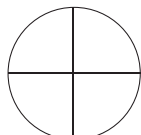


**MT5310L / MT5310H**  
(Trinocular Phase Contrast Model)

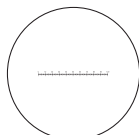
## COMPONENTS & ACCESSORIES FOR MT5000 SERIES

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

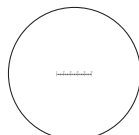
- MA523** Cross-line reticle, 25mm diameter
- MA506** 10mm divided into 100 units, 25mm diameter
- MA509** 5mm divided into 100 units, 25mm diameter
- MA524** 10mm square into 400 parts, 0.5mm square, 25mm diameter
- MA510** 10mm square into 100 parts, 1.0mm square, 25mm diameter
- MA542** Cross-line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



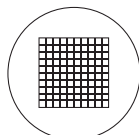
MA523



MA506



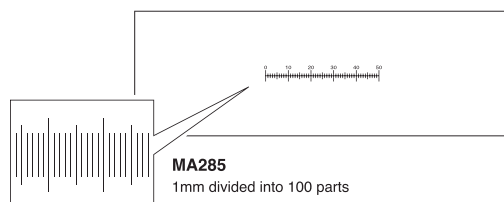
MA509



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



**Zernike Phase Set**

### 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

## COMPONENTS AND ACCESSORIES FOR MT5000 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)

### 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 (without reticle), Tube O.D. 30.0mm (paired)

### PLANACHROMAT OBJECTIVES

- MA830** U Plan Objective 2.5X, N.A.0.07, W.D.5.7mm, F.N.24
- MA831** U Plan Objective 4X, N.A.0.10, W.D.25.8mm, F.N.24, (Included in Models MT5200L, MT5300L, MT5200H and MT5300H)
- MA832** U Plan Objective 10X, N.A.0.25, W.D.10.67mm, F.N.24, (Included in Models MT5200L, MT5300L, MT5200H and MT5300H)
- MA833** U Plan Objective 20X, N.A.0.40, W.D.7.29mm, F.N.24
- MA834** U Plan Objective 40X, N.A.0.65, W.D.0.5mm, F.N.24, (Included in Models MT5200L, MT5300L, MT5200H and MT5300H)
- MA835** U Plan Objective 50X oil, N.A.0.87, W.D.0.28mm, F.N.24
- MA837** U Plan Objective 100X oil, N.A.1.25, W.D.0.23mm, F.N.24, (Included in Models MT5200L, MT5300L, MT5200H and MT5300H)

### ZERNIKE PLANACHROMAT PHASE OBJECTIVES AND COMPONENTS

- MA839** U Plan Phase 10X Objective, N.A.0.25, W.D.10.7mm, F.N.24, (Included in Models MT5210H and MT5310H)
- MA840** U Plan Phase 20X Objective, N.A.0.40, W.D.7.29mm, F.N.24, (Included in Models MT5210H and MT5310H)
- MA841** U Plan Phase 40X Objective, N.A.0.65, W.D.0.5mm, F.N.24, (Included in Models MT5210H and MT5310H)
- MA842** U Plan Phase 100X Objective, N.A.1.25, oil, W.D.0.23mm, F.N.24, (Included in Models MT5210H and MT5310H)

### 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 (Included in Models MT5210H, MT5310H)

### OTHER ZERNIKE COMPONENTS

- MA458/05** Centering Telescope.30.0mm O.D. (Included in Models MT5210H and MT5310H)
- MA861/05** Green interference filter, 40.0mm diameter, unmounted (Included in Models MT5210H, MT5310H)

### BRIGHTFIELD CONDENSER

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

### DARKFIELD OIL IMMERSION OBJECTIVE/CONDENSER SYSTEM

- MA836** Plan Objective 50X, N.A.0.87, oil, with iris, W.D.0.28, F.N.24
- MA838** Plan Objective 100X, N.A.1.25, oil, with iris, W.D.0.23, F.N.24
- MA914** Darkfield condenser, N.A.1.25, dovetail mount

### POLARIZERS

- MA915** Polarizer set for MT5000 Series microscopes

### FILTERS

- MA858/05** ND25 Neutral density filter, 40.0mm diameter, unmounted
- 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
- MA861/05** Green interference filter, 40.0mm diameter, unmounted (Included in Models MT5210H, MT5310H)

### STAGES

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



ERGONOMIC HEAD



PLANACHROMAT OBJECTIVES



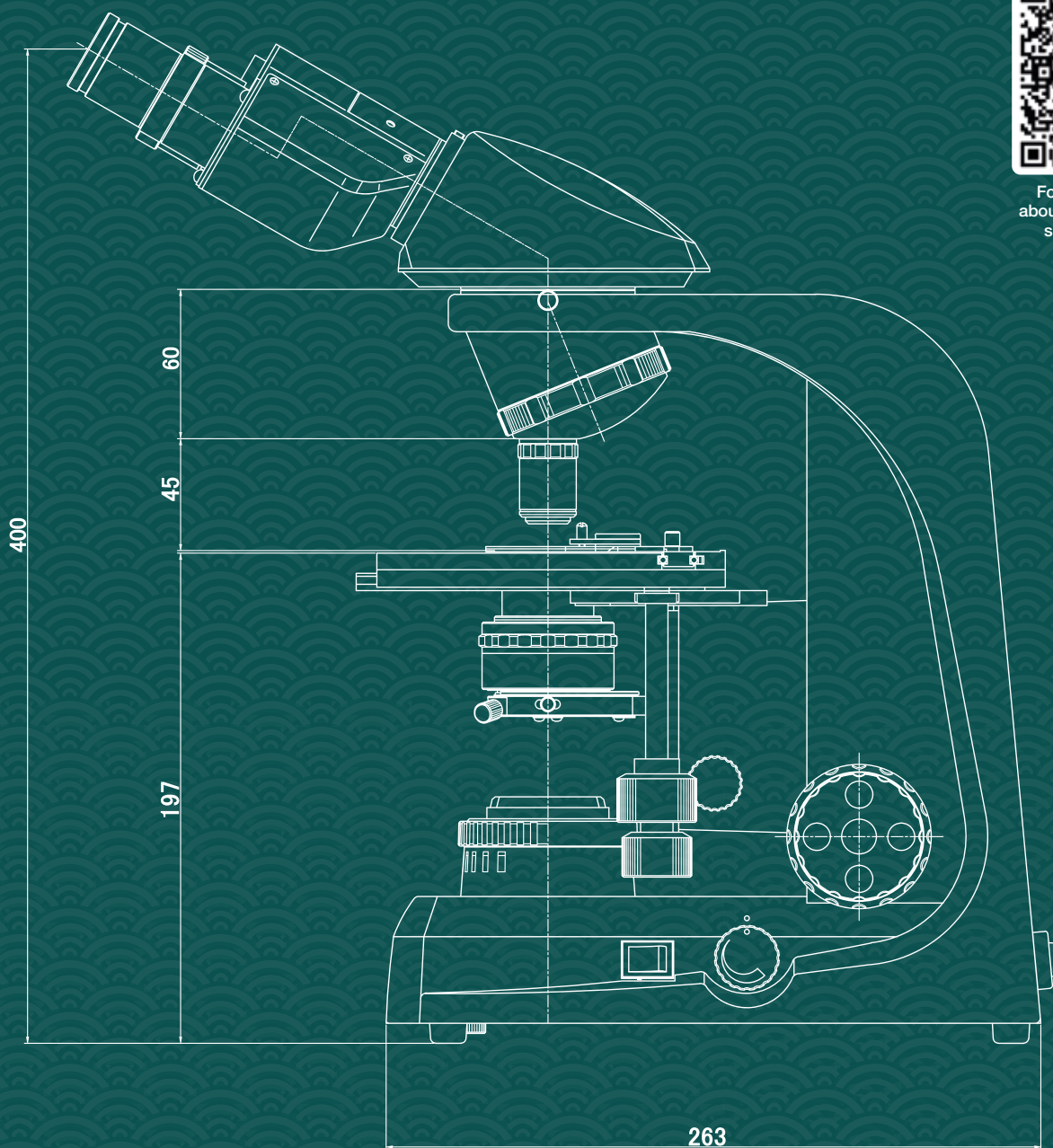
POLARIZER SET



ARKFIELD CONDENSER AND OBJECTIVES WITH IRIS DIAPHRAGM



For more information  
about the MT5000 Series,  
scan this QR code.



Specifications and design subject to change without notice for improvements

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