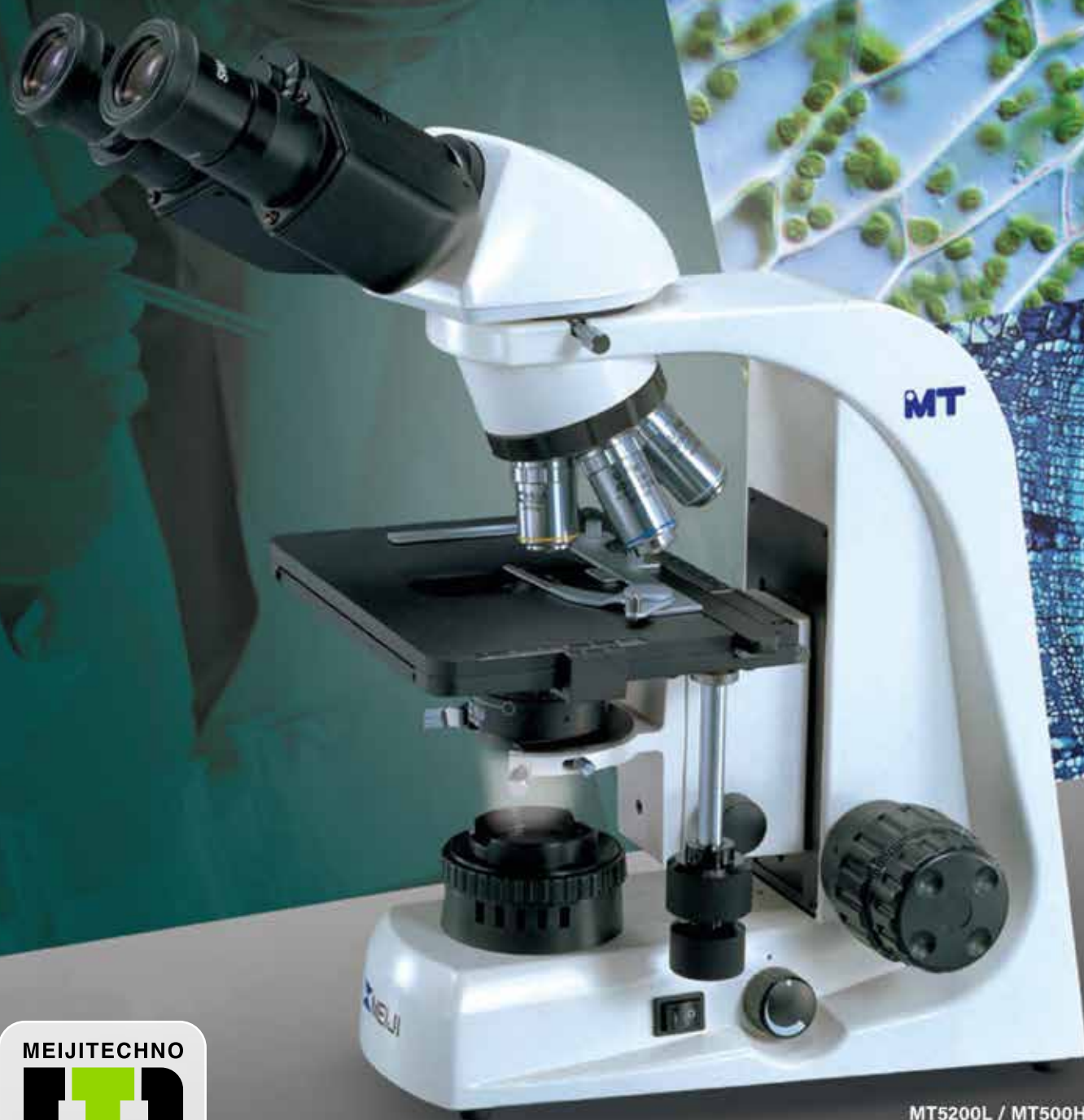


Infinity Corrected Optical System

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.

MEIJITECHNO



MODULAR DESIGN facilitates ATTACHMENT OF A VARIETY OF ACCESSORIES

HD CAMERA ATTACHMENT

HDMI/USB 2.0

INTEGRATED AUTOMATIC VOLTAGE SENSING POWER SUPPLY WITH LOCALIZED POWER CORDSET



Larger and Comfortable 30mm Siedentopf-type Binocular and Trinocular Viewing Heads

Smooth-operating ball bearing quintuple nosepiece provides effortless objective changes.

New improved Infinity Corrected Optical System (ICOS™) with all newly designed U Plan

Newly increased larger Ceramic Coated Stage with Ergonomically Placed Low Position Drop Down Control

Newly designed Abbe 1.25 N.A. condenser in quick change dovetail mount.

Available in Integrated Super Bright LED or 30-watt Halogen Koehler Transmitted Illumination System on selected Brightfield and Phase Contrast Models

Compact Space Saving Footprint

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

Trinocular tube with locking pin

Beam splitter 8/20 split ratio, 80% light is directed to the camera for high quality image and the remaining light 20% going to the eyepieces

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

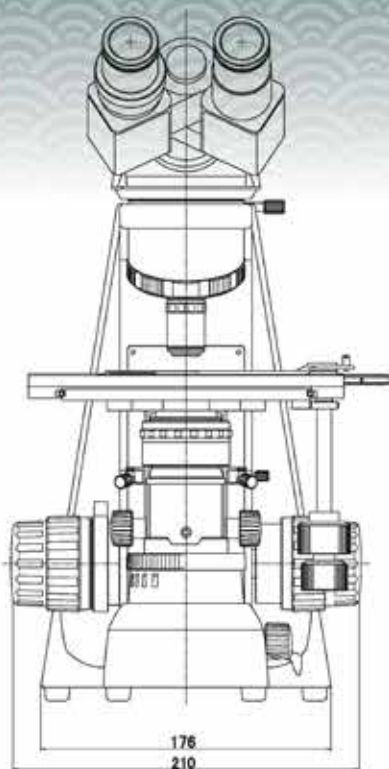
Ergonomic X-Y right handed dropdown coaxial control

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.

MT5300L / MT5300H



MT5210L / MT5310H
(Binocular Phase Contrast Model)

BRIGHTFIELD BINOCULAR AND TRINOCULAR MODEL SYSTEMS

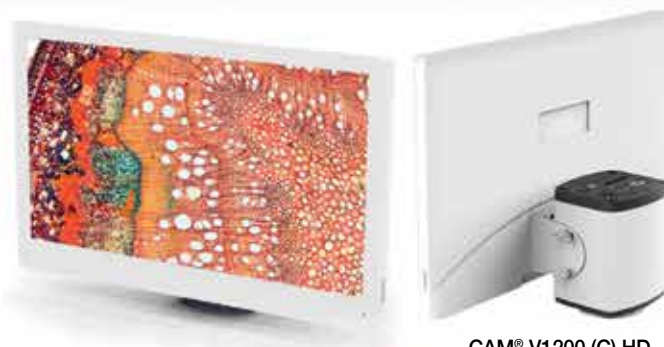
MODEL	BODY	ILLUMINATOR	EYEPIECES	OBJECTIVES	STAGE	CONDENSER
MT5200L	Binocular	LED ILLUMINATION KOEHLER AUTO VOLTAGE SENSING 110V-240V	KHW 10X F.N. 20 (O.D. 23.2mm) PAIRED	INFINITY OPTICAL SYSTEM F = 200mm (Bright Field) U PLAN 4X U PLAN 10X U PLAN 40X U PLAN 100X OIL	FIXED CERAMIC COATED FLAT-TOP RIGHT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

PHASE CONTRAST / BRIGHTFIELD BINOCULAR AND TRINOCULAR MODEL SYSTEMS

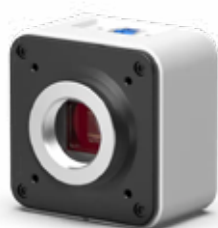
MODEL	BODY	ILLUMINATOR	EYEPIECES	OBJECTIVES	STAGE	CONDENSER
MT5210L	Binocular	LED ILLUMINATION KOEHLER AUTO VOLTAGE SENSING 110V-240V	KHW 10X F.N. 20 (O.D. 23.2mm) PAIRED	INFINITY OPTICAL SYSTEM F = 200mm (Phase Contrast /Bright Field) U PLAN 4X, U PLAN PH10X, U PLAN PH40X	FIXED CERAMIC COATED FLAT-TOP 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					

DIGITAL CAMERAS FOR MICROSCOPY

CAM® V1700 (M)	Monochrome 8.3 MP 1/1.7" CMOS 44 f/s USB 3.0 Digital camera with resolution 3840x2160 pixels
CAM® V3400	Color 5.1 MP 2/3" CCD 75 f/s USB 3.0 Digital camera with resolution 2464x2056 pixels
CAM® V3200	Color 3.2 MP 1/1.8" CMOS 120 f/s USB 3.0 Digital camera with resolution 2064x1544 pixels
CAM® V1400	Color 20 MP 1" CMOS 15 f/s USB 3.0 Digital camera with resolution 5472x3648 pixels
CAM® V1200 (C) HD	Color digital HD camera with monitor 6 MP 1/2.8" CMOS USB 3.0 Resolution 3264x1836 pixels Built-in 11.6" LCD screen Video record: 1080p high definition format



CAM® V1200 (C) HD



CAM® V1400

C MOUNT ADAPTERS

MA151/35/03	C" mount adapter with 0.3X lens
MA151/35/04	C" mount adapter with 0.45X lens
MA151/35/15	C" mount adapter with 1.0X lens
MA151/35/20	C" mount adapter with 0.7X lens
MA151/35/25	C" mount adapter with 2.5X lens
MA151/35/30	C" mount adapter with 1.5X lens
MA151/MT05	C" mount adapter with 0.5X lens

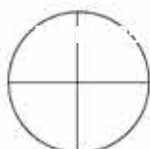


MT5310L / MT5310H
(Trinocular Phase Contrast Model)

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



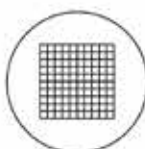
MA523



MA506



MA509



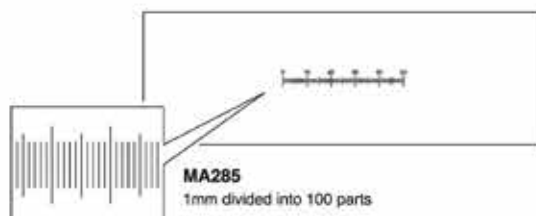
MA542

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

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

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)



ERGONOMIC HEAD

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)



PLANACHROMAT OBJECTIVES

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

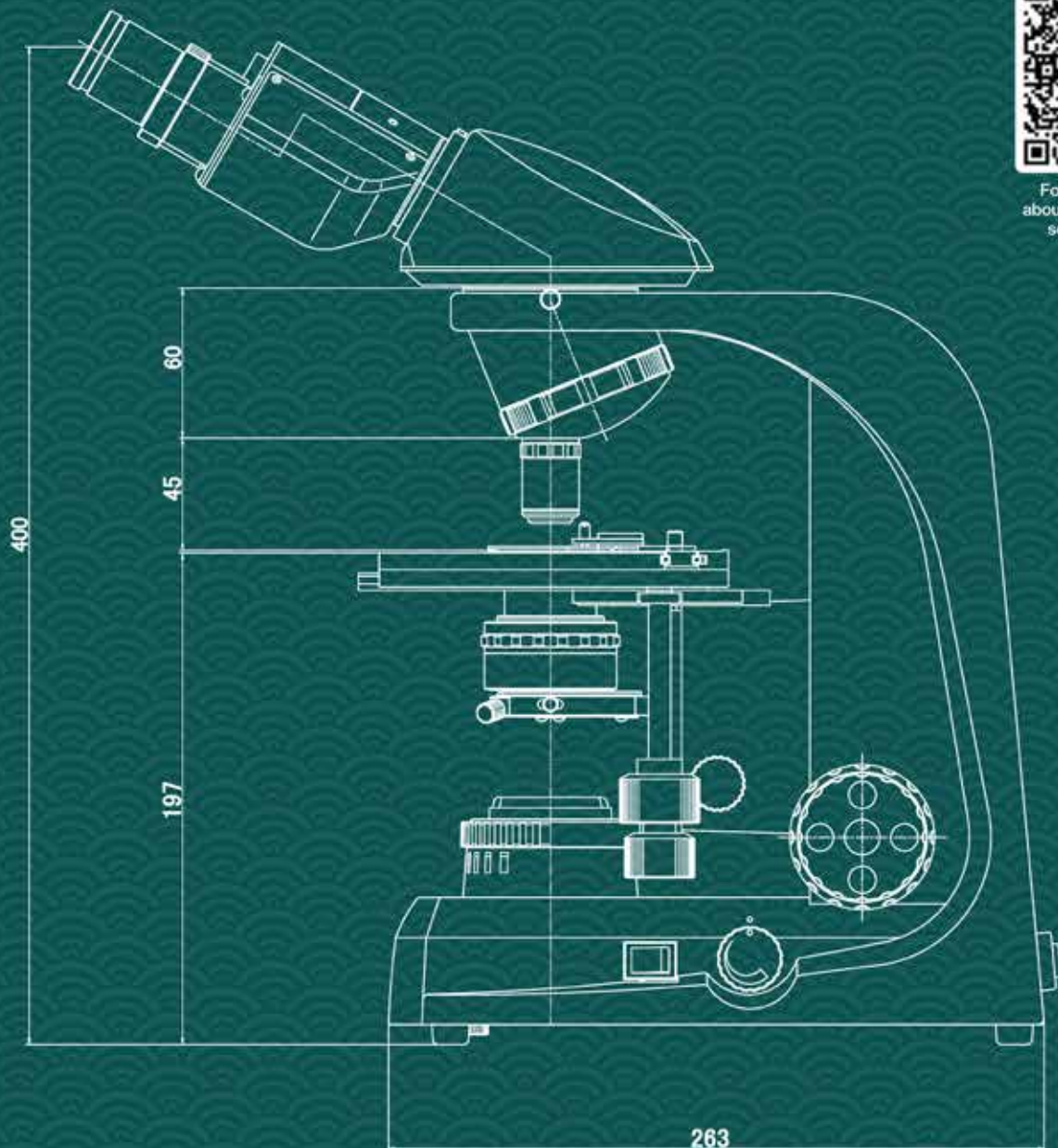
- MA918R** Ceramic coated flat-top stage, 78mm x 52mm, X-Y movement, with right hand drop-down coaxial controls. (Included in Models MT5200L, MT5300L, MT5200H, MT5300H, MT5310H, and MT5310H)
- MA918L** Ceramic coated flat-top stage, 78mm x 52mm, X-Y movement, with left hand drop-down coaxial controls. (Included in Models MT5200L, MT5300L, MT5200H, MT5300H, MT5310H, and MT5310H)
- MA676** Attachable clinical specimen holder for MA918R and MA918L



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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