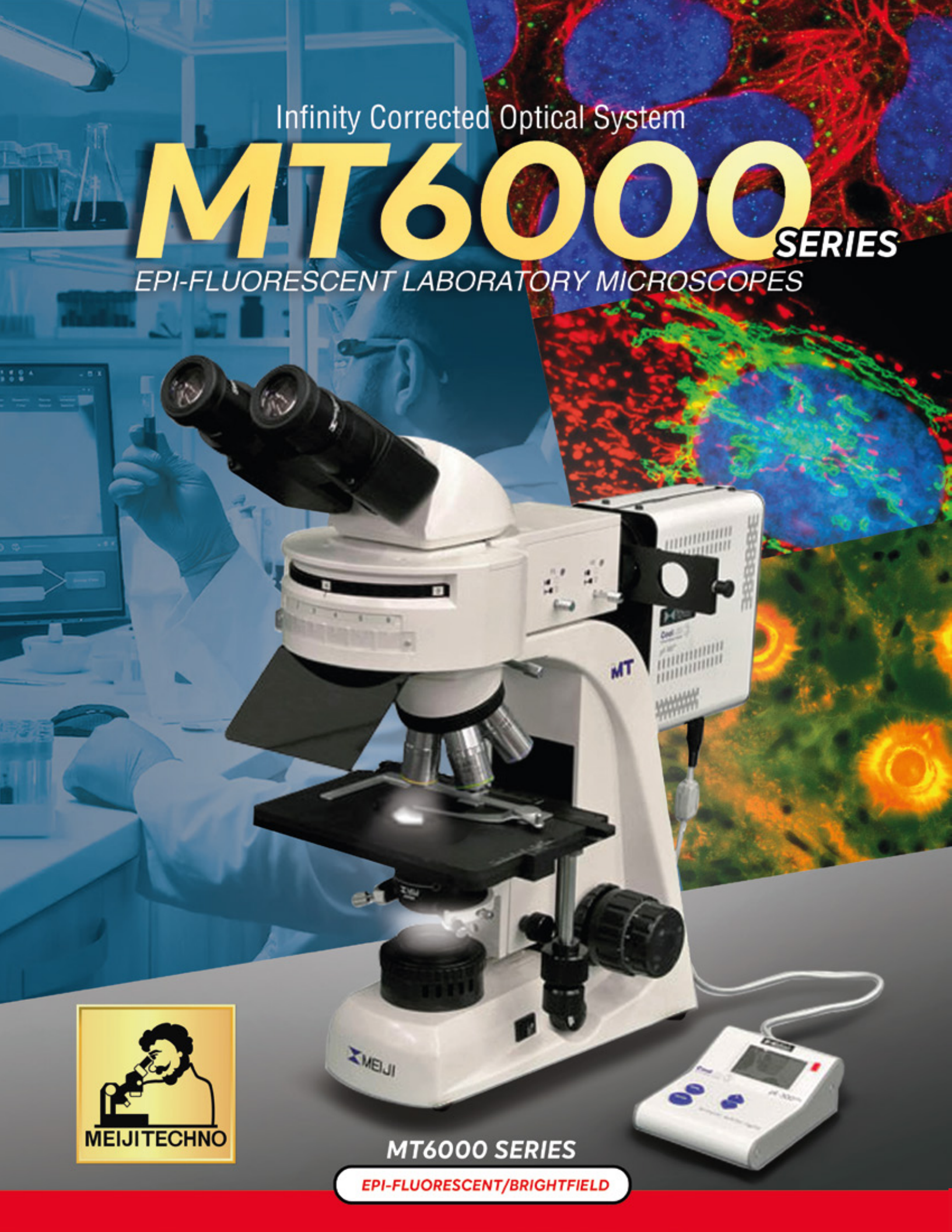
Infinity Corrected Optical System

MT6000 SERIES

EPI-FLUORESCENT LABORATORY MICROSCOPES



MEIJITECHNO

MT6000 SERIES

EPI-FLUORESCENT/BRIGHTFIELD

MT6000 SERIES
EPI-FLUORESCENT LABORATORY MICROSCOPES

For further details and more information about the MT6000 Series, scan this QR code.

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



Units are supplied with either a standard Siedentopf type binocular or a Siedentopf type trinocular head. Both binocular and trinocular heads have the eyetubes inclined at 30 with the left eyetube having a graduated diopter adjustment.Super Widefield 1 OX High Eyepoint eyepieces, F.N.22 are standard.

Modular six position epi-fluorescent illuminator with six blank positions for filter cubes.

Equiped with www.chrome.com Basic blue, green and U excitation filter sets mounted in filter cubes included in all MT6000 models.

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

Available with comfortable Siedentopf type Trinocular or Binocular head or . Ergonimic Binocular or Trinocular models (Tilt 10°to 50°)



New improved Semi Apo Plan infinity corrected objectives for fluorescent imaging with slide holder.

CoolLED Simply Better Control

Highly controllable fluorescence microscopy Illumination System which offers intense, broad-spectrum LED illumination for imaging most common fluorophores.

191 mm x 128mm ceramic coated left or right-handed, flat top mechanical stage.

30 watt halogen illumination with automatic voltage sensing power supply for transmitted light use.

Size and Weight:
Footprint : 263 mm(D) x 176mm(W)
Weight & Overall Dimension :
Binocular head type 475 mm(D) x 477 mm(H) x 21 O mm(W), 11.94kg Trinocular head type 475 mm(D) x 532 mm(H) x 210 mm(W), 12.64kg Power Supply: 260 mm(D)

Brightfield, Darkfield, Phase Contrast and Polarized light modes available.



(Optional Ergonomic)

Tilting Binocular Viewing Heads

Meiji Techno's MT6000 Series offers and optional tilting binocular ergonomic viewing head (MA975) which can be used in conjunction with a photo/video attachment with a sliding 80/20 beamsplitter. The tilting binocular head is adjustable from 10 to 50°. The left eyetube has a graduated diopter adjustment. The interpupillary distance is adjustable from 53mm - 75mm. When the 80/20 beamsplitter is engaged for photo work, 80% of the image is directed to phototube and 20% to the eyetubes.



Stage

(Ceramic Coated, Low Profile, Right & Left Hand Stages) All MT6000 models offer newly designed, double plate, ceramic coated stages, 191 mm(W) x 128mm(D) with rounded corners and low positioned drop down ergonomic X-Y coaxial controls. The easy to clean ceramic coating allows for a smooth exchange of specimens while offering maximum protection to the stage surface from abrasions and wear. The super hard coating is durable and rugged enough to provide years of demanding use.



Objectives

The newly designed Semi Apo Plan F objectives offer high light transmission that extends into the ultra-violet excitation range, making them well-suited for fluorescence and other UV-based applications. They produce extremely bright, high-contrast images with excellent color correction and minimal chromatic aberration, ensuring clear and accurate results across a wide spectral range.



Condenser

The MT6000 Series features a newly designed condenser system with a quick-change dovetail mount, allowing for fast and effortless switching between condensers. This streamlined design improves efficiency and supports various illumination techniques without needing tools or complex adjustments.



Improved Design Field Iris

Meiji Techno's MT6000 Models feature a newly designed field iris. Unmounted 40mm filters can be quickly and easily placed directly into the filter tray above the aperture. The improved design iris control operates and tracks very smoothly and predictably facilitating accurate iris control with improved usability.



Ergonomically Placed Focusing Controls

The MT6000 Series Biological Microscopes have been designed with improved ergonomics which means operators can work without repetitive stresses. Low positioned controls allow the operator to work with their forearms relaxed on the working surface so ergonomically placed controls are within easy reach. Range of travel: 23mm, Rotation of fine focus: 0.2mm per revolution. .

CoolLED
ILLUMINATION SYSTEM

CoolLED's illumination system offers intense, broad-spectrum LED illumination for fluorescence microscopy. The system is perfect for hospital and regular research laboratory environments and is affordable within consumables budgets.

This mercury-free alternative is safer, more controllable and precise than conventional bulb illumination options. Spectral coverage is from the UV (DAPI excitation) to the Red region (Cy5 excitation).

PE-300L/LEDMT	LED Fluorescence Illumination Kit for simple desktop control Pod with a manual control pod and power supply.
PE-300W/LEDMT	LED Fluorescence Illumination Kit. 3 Channel control pod allows use with multi-band filter sets.

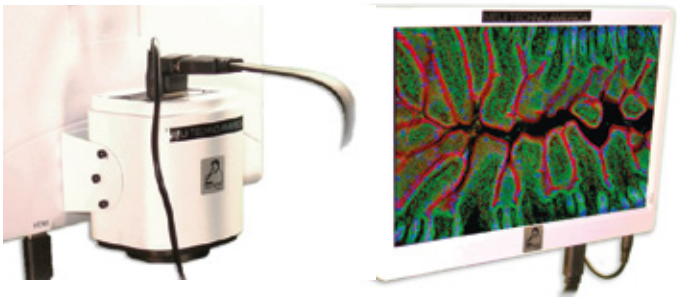
MERCURY FREE

PE-300L/LEDMT



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.





MT6300CW-HD1500TM+MA151/35/03

COMPONENTS AND ACCESSORIES FOR MT6000 SERIES FLUORESCENT MODELS

The items marked with an asterisk (*)are included in the Models MT6200 & MT6300

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 Model MT6200)
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 Model MT6300)
MA957	Ergonomic head, inclination adjustable vertically 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 80/20 beamsplitter

EYEPIECES WITH 30.0mm O.D. Eyetube

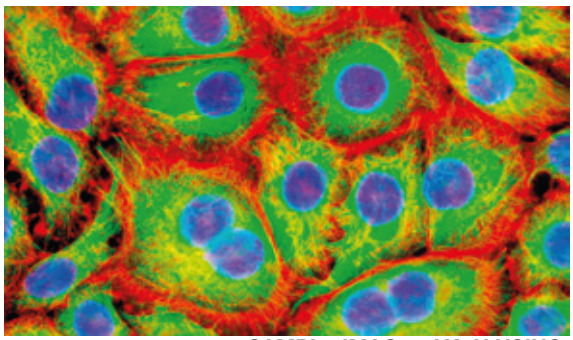
MA1012	Plan Apochromat Objective F4X, N.A. 0.13, W.D. 17.5mm, F.N. 24 (Optional)
MA980*	Plan Apochromat Objective F10X, N.A. 0.30, W.D. 8.6mm, F.N. 24 (Included)
MA981*	Plan Apochromat Objective F20X, N.A. 0.65, W.D. 0.7mm, F.N. 24 (Included)
MA982*	Plan Apochromat Objective F40X, N.A. 0.80, W.D. 0.2mm, F.N. 24 (Included)
MA983*	Plan Apochromat Objective F100X, N.A. 1.25, W.D. 0.2mm,

OBJECTIVES FOR FLUORESCENT MICROSCOPY

MA844*	Semi Apoplan Objective F10X, N.A.0.40. W.D.1.0mm, F.N.24
MA845*	Semi Apoplan Objective F20X, N.A.0.65. W.D.0.7mm, F.N.24
MA846*	Semi Apoplan Objective F40X, N.A.0.82, W.D.0.15mm, F.N.24
MA848*	Semi Apoplan Objective F100X, oil, N.A.1.25, W.D.0.2mm, F.N.24

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.25.9mm, F.N.24
MA832	U Plan Objective 10X, N.A.0.25, W.D.10.7mm, F.N.24
MA833	U Plan Objective 20X, N.A.0.40, W.D.1.6mm, F.N.24
MA834	U Plan Objective 40X, N.A.0.65, W.D.0.5mm, F.N.24
MA835	U Plan Objective 50X, 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



SAMPLE IMAGE TAKEN USING MT6300CL+HD1500MET-M CAMERA



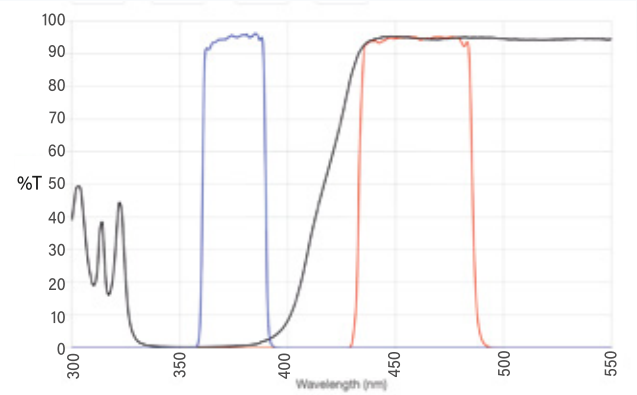
OBJECTIVES FOR FLUORESCENT MICROSCOPY
NOTE: Excitation Filter 25mm diameter, Dichroic 25.7mm x 36mm, Emitter filter 25mm diameter

MT-EPI-2 EPI FLUORESCENT ATTACHMENT SET FOR MT6000 SERIES COMPOSED OF:

MT-FL*	Modular six position Epi-Fluorescent illuminator attachment includes Basic Blue, Green and U excitation filter sets cubed and 3 blank positions
MA860*	ND25 Neutral density filter, 29.8mm diameter

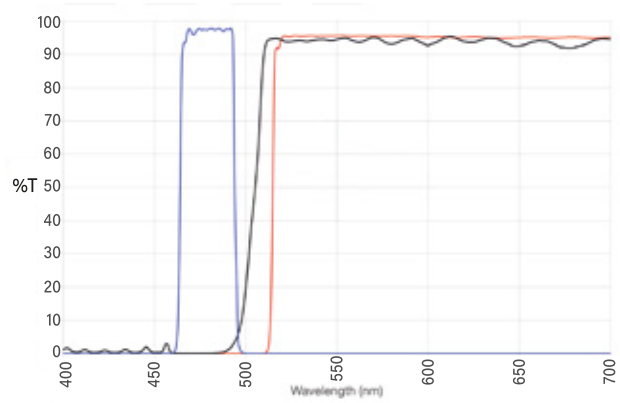
MA881/05 Chroma P/N 39000

Basic U excitation filter set in cube
(included in Models MT6200 & MT300 Series)



MA879/05 Chroma P/N 19002

Basic BLUE excitation filter set in cube
(included in Models MT6200 & MT300 Series)

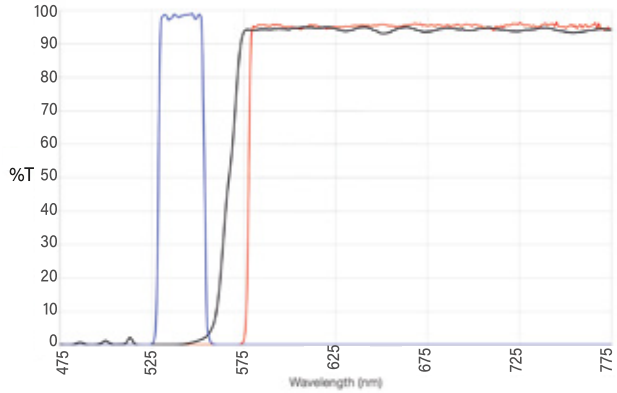


FLUORESCENCE FILTER INFORMATION

Excitation Type	Excite Filter 25mm diameter	Dichroic Mirror 25.7mm X 38mm	Emilter Filter 25mm diameter	Applications
MA879/05 Blue Choma P/N 19002	D470/40x	495DCLP	E515LP v2	FTTC Acridine Orange Auramine EGFP,S65T RSGFP
MA866/05 Green Choma P/N 19004	D546/10x	565DCLP	E590LP v2	Rhodamine TRITC Propidium iodine RFP
MA881/05 Choma P/N 3900	D360/40x	400DCLP	D460/50m	DAPI Hoechst AMCA

MA866/05 Chroma P/N 19004

Basic GREEN excitation filter set in cube
(included in Models MT6200 & MT300 Series)



MODEL	BODY	OBJECTIVES	EYEPIECES	CONDENSER	ILLUMINATOR
MT6200CL	Binocular	Semi Plan Apo F10x F20x F40x F100x	SWH 10X F.N. 22 (O.D. 30mm)	Abbe NA 1.25 with iris in dovetail mount	Incident PE-300L/LEDMT CoolLED + Transmitted Koehler LED
MT6200ECL	Ergonomic Binocular				
MT6300CL	Trinocular (Siedentopf)	Semi Plan Apo F10X F20X F40X F100X oil	SWH 10X F.N. 22 (O.D. 30mm)	Abbe NA 1.25 with iris in dovetail mount	Incident PE-300L/LEDMT CoolLED + Transmitted Koehler LED
MT6300ECL	Ergonomic Trinocular				
MT6200CW	Binocular (Siedentopf)	Semi Plan Apo F10X F20X F40X F100X oil	SWH 10X F.N. 22 (O.D. 30mm)	Abbe NA 1.25 with iris in dovetail mount	Incident PE-300W/LEDMT CoolLED + Transmitted Koehler LED
MT6200ECW	Ergonomic Binocular				
MT6300CW	Binocular (Siedentopf)	Semi Plan Apo F10X F20X F40X F100X oil	SWH 10X F.N. 22 (O.D. 30mm)	Abbe NA 1.25 with iris in dovetail mount	Incident PE-300W/LEDMT CoolLED + Transmitted Koehler LED
MT6300ECW	Ergonomic Trinocular				

ZERNIKE PLANACHROMAT PHASE OBJECTIVES AND COMPONENTS

MA839 U Plan Phase 10X Objective, N.A.0.25, W.D.10.7mm, F.N.24
MA840 U Plan Phase 20X Objective, N.A.0.40, W.D.6.50mm, F.N.24
MA841 U Plan Phase 40X Objective, N.A.0.65, W.D.0.5mm, F.N.24
MA842 U Plan Phase 100X Objective, N.A.1.25, oil, W.D.0.23mm, F.N.24

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 dove tail mount

OTHER ZERNIKE COMPONENTS

MA458/05 Centering Telescope, 30.0mm O.D.
MA861/05 Green interference filter, 40.0mm diameter, unmounted

BRIGHTFIELD CONDENSER

MA910 Abbe condenser, N.A.1.25 with iris diaphragm and filter tray, dovetail mount (Included in all Models)
MA911 Achromatic condenser, N.A.1.25 with iris diaphragm in dovetail mount

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 MT6000 Series microscopes

FILTERS

MA858/05 ND25 Neutral density filter, 40.0mm diameter, unmounted
MA856/05 LB100 Blue Clear filter 40mm diameter, unmounted
MA857/05 Green filter, clear, 40.0mm diameter, unmounted
MA861/05 Green interference filter, 40.0mm diameter, unmounted

STAGES

MA918R Ceramic coated flat-top stage, 78mm x 52mm, X-Y movement, with right hand drop-down coaxial controls.
MA918L Ceramic coated flat-top stage, 78mm x 52mm, X-Y movement, with left hand drop-down coaxial controls.
MA676 Attachable clinical specimen holder for MA918R and MA918L

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

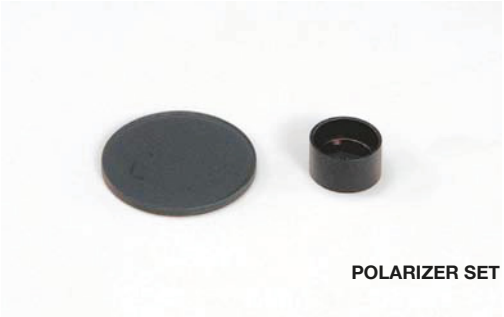
STAGE MICROMETERS

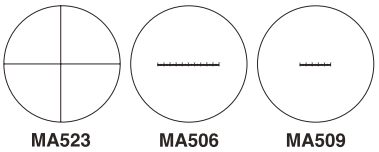
MA285 1mm divided into 100 units, 0.01mm
MA286 0.04" divided into 40 units, 0.001"

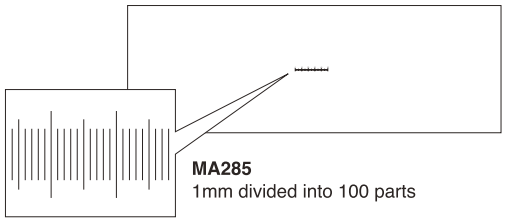


ZERNIKE PHASE CONTRAST SET


DARKFIELD CONDENSER AND OBJECTIVES WITH IRIS DIAPHRAGM


POLARIZER SET


MA523 MA506 MA509


MA285
1mm divided into 100 parts

Specifications and design subject to change without notice for improvements

Agent:

MEIJI TECHNO CO.,LTD.
322-1, Chikumazawa Miyoshi-machi,
Iruma-gun Saitama 354-0043, Japan
Tel : (0)49-259-0111 Fax : (0)49-259-0113
E-mail : meiji@meijitechno.co.jp
http://www.meijitechno.co.jp

MEIJI TECHNO AMERICA
591 Division St., Campbell CA 95008
Tel: 408-226-3454 Fax: 408-226-0900
Toll free : 800-832-0060
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