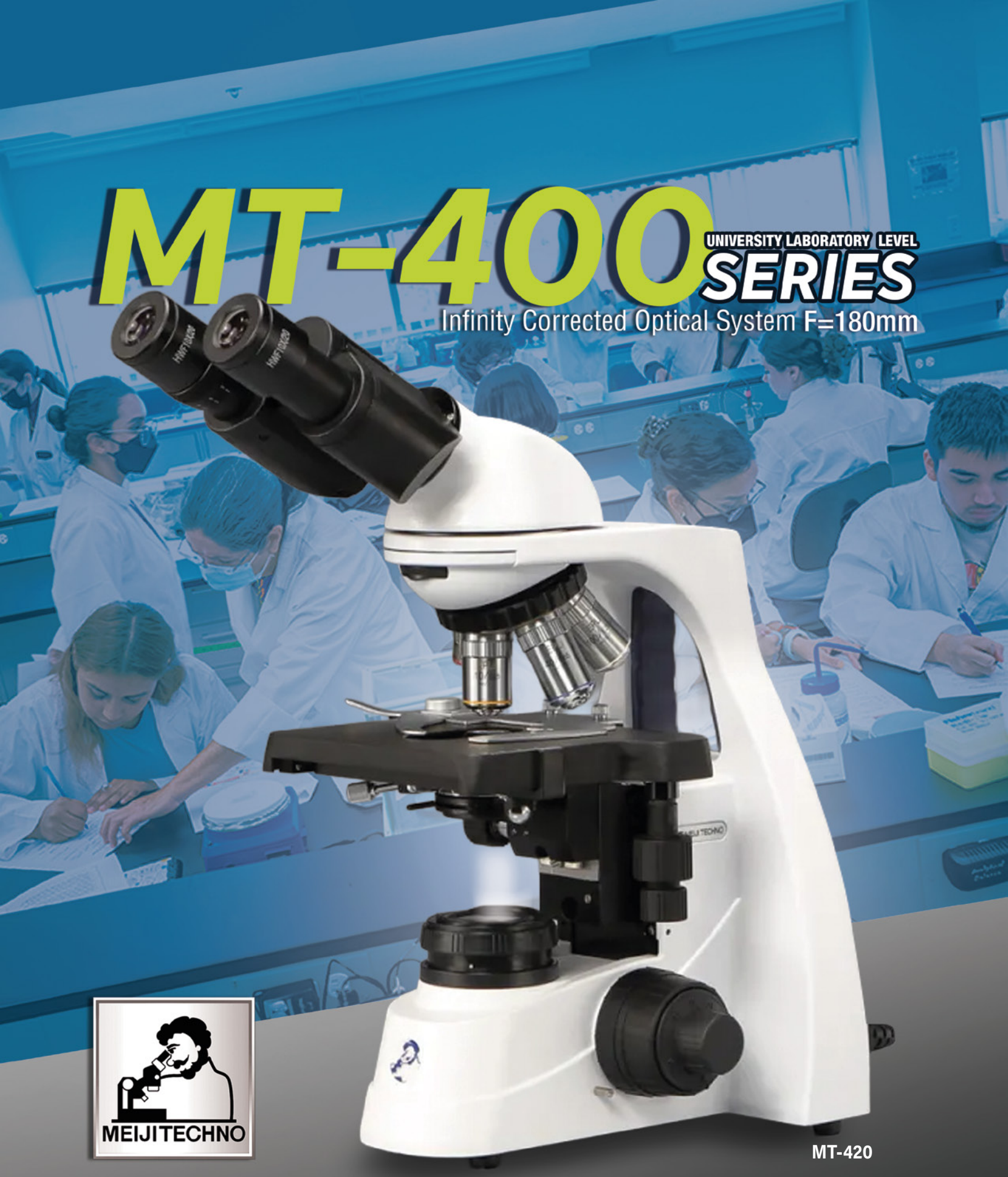
MT-400 SERIES

UNIVERSITY LABORATORY LEVEL

Infinity Corrected Optical System **F=180mm**



MEIJITECHNO

MT-420

BRIGHTFIELD UPRIGHT BIOLOGICAL COMPOUND MICROSCOPES

MT-400 SERIES

MEIJI TECHNO

UNIVERSITY LABORATORY MICROSCOPES

UPRIGHT BRIGHTFIELD BIOLOGICAL COMPOUND SYSTEMS

THE MEIJI TECHNO MT-420 AND MT-430 SERIES ARE ADVANCED RESEARCH-GRADE BIOLOGICAL MICROSCOPES DESIGNED TO DELIVER PRECISION, DURABILITY, AND MODERN FUNCTIONALITY FOR LABORATORIES, UNIVERSITIES, AND CLINICAL ENVIRONMENTS.

Engineered with a rugged cast-metal frame and finished in chemical-resistant white enamel, these microscopes combine strength with a refined, ergonomic design. Both models feature Infinity Corrected Plan Achromat objectives and HWF 10x/20 mm eyepieces, ensuring crisp, high-contrast imaging across all magnifications. The reversed quintuple nosepiece with a slot for a polarization filter allows smooth objective rotation, while the rackless X-Y mechanical stage provides precise and stable slide control. Illumination is powered by a 3 W NeoLED™ adjustable system, offering bright, uniform lighting with excellent color fidelity and long-lasting performance.

The MT-420 is the binocular model, ideal for standard laboratory observation, while the MT-430 introduces a trinocular head equipped with a 23.2 mm photo port—perfect for digital imaging and live documentation. The Siedentopf head, with ±5 diopter adjustment and 48–76 mm interpupillary range, rotates 360° and offers adjustable viewing height for optimal ergonomics. Both models are treated with an APL (Antimicrobial Protection Layer) to prevent microbial growth, ensuring hygiene and longevity in demanding lab environments. Additional features like the CSS Cable Storage System, integrated carrying grip, and Kensington anti-theft slot enhance safety and convenience. Supported by a 5-year warranty, the MT-420 and MT-430 Series represent Meiji Techno's commitment to innovation, optical excellence, and reliable performance for the modern laboratory.

RUGGED, CAST METAL FRAME WITH CLEMICAL RESINTANT FINISH

CABLE STORAGE SYSTEM AND EASY CARRYING GRIP ASSEMBLY

INFINITY **CORRECTED** ACHROMAT **OBJECTIVES** WITH QUINTUPLE **NOSEPIECE**

BUILT IN **LED** **ILLUMINATION** WITH INTERNAL **POWER** SUPPLY/CHARGER

MODEL	BODY	ILLUMINATOR	EYEPIECES	OBJECTIVES	STAGE	CONDENSER
MT-420	Binocular	3W INTENSITY ADJUSTABLE LED ILLUMINATION WITH INTERNAL POWER SUPPLY/CHARGER AUTO VOLTAGE SENSING POWER SUPPLY 100V - 240V	PAIRED HWF 10X//20MM F.O.V. 23.2MM WITH DIOPTER ADJUSTMENT	INFINITY PLAN ACHROMAT 4X, 10X, 40X, 100X OIL	149MM X 138MM MECHANICAL STAGE WITH LOCKED-ON SPRING LOADED STAGE CLIP PAIRED	ABBE CONDENSER N.A. 1.25 WITH SLIDER HOUSING FOR SLIDERS AND PINION FOR VERTICAL MOVEMENT
MT-430	Trinocular					

for **UNIVERSITY**
STUDENTS & EDUCATORS

VIEWING HEADS
Binocular 30° inclined tube or or Trinocular Viewing Head 30° inclined

ATTACHABLE
DIGITAL CAMERA
23.2mm PHOTO PORT

UNIVERSITY
LABORATORY LEVEL MICROSCOPES FOR EDUCATIONAL PRACTICES

EYEPIECES
Paired HWF 10X//20mm F.O.V. 30.0mm with diopter adjustment

OPTICAL PARTS
ARE ***ANTI-FUNGUS TREATED***
FOR HUMID AND TROPICAL CLIMATES

16MM FILTER TRAY
securely holds the fragile filters in place within the microscope's optical path.

Reverse facing nosepiece with Infinity Corrected Plan Achromat 4X, 10X, 40X, 100X oil N.A. 1.25, W.D. 0.19mm, 180mm tube length
OBJECTIVES

RUGGED
CAST METAL
FRAME
WITH TRIANGULAR
COMPACT SPACE
FOOTPRINT DESIGN

149mm x 138mm Mechanical stage with X – Y movement of 76mm x 50mm. With locked-on specimen holder with spring lock
STAGE

Abbe condenser, N.A. 1.25 with Iris diaphragm and lever for height adjustability
CONDENSER

MECHANICAL DROPDOWN
Ergonomic X-Y right handed dropdown coaxial control

Built-in 3W intensity adjustable LED illuminator provides constant, reliable, pre-focused illumination. Power supply, 100V – 240V with 45mm Filter Holder
ILLUMINATION

STAGE LOCK
Prevents the microscope stage from moving past a set focus point

MT-430

FOCUSING ADJUSTMENT
Coaxial coarse and 200 µm fine adjustments, 2 µm precision, Friction adjustment. "Slip-clutch" system protects against over-focusing

Customer Support (U.S.A Based)
1-(800) 832-0060 (P.S.T.)

Normal Configuration:
Length 14" x Width 8" x Height 15.5"
Head Rotated 180° for Storage:
Length 9.5" x Width 6" x Height 15.5"

HDMI-USB 2.0 CAMERAS WITH 11.8" MONITOR

Requires C - Mount Adapter on trinocular model MT-430

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.

AVAILABLE C-MOUNT ADAPTERS FOR MT-430 SERIES

MA1091	C-mount adapter 0.37X lens for MT-430
MA1092	C-mount adapter 0.50X lens for MT-430
MA1093	C-mount adapter 0.75X lens for MT-430

HD1500MET-M

ATTACHABLE **DIGITAL** CAMERA **SYSTEM**

IDEAL FOR *LABORATORY LEVEL*
UNIVERSITY
MEIJI TECHNO MICROSCOPES FOR EDUCATIONAL APPLICATIONS

For more information about the MT-400 Series, scan this QR code.

MT-430

Specifications and design subject to change without notice for improvements

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