

MT-50 ADVANCED UNIVERSITY LEVEL **SERIES**

Infinity Corrected Optical System F=200mm



**BRIGHTFIELD/PHASE CONTRAST
UPRIGHT BIOLOGICAL COMPOUND MICROSCOPES**

MT-50



ADVANCED UNIVERSITY MICROSCOPES

SERIES

Laboratory Brightfield Phase Contrast Upright Biological Compound Microscopes

THE MT-50 / MT-51 MEIJI TECHNO BRIGHTFIELD UPRIGHT BIOLOGICAL COMPOUND MICROSCOPES

The Meiji Techno MT-50 Series is an advanced biological microscope designed for higher academic, clinical, and research applications. Ideal for laboratories, medical schools, veterinary clinics, and physician offices, the MT-50 combines affordability, optical precision, and long-term durability. Constructed with a rugged cast aluminum frame, the MT-50 ensures stability and longevity while maintaining a compact footprint suitable for any laboratory bench. Its quadruple reverse-position nosepiece allows easy objective changes and protects lenses from accidental contact. The 3-watt LED illumination system with variable intensity provides bright, even lighting without heat, preventing sample dehydration or distortion. Rated for over 25,000 hours of use, it guarantees consistent performance with minimal maintenance.

Offering magnifications of 40x, 100x, 400x, and 1000x, this series is ideal for a wide range of biological studies. Slides are securely held with precision stage clips, while the cord hanger adds convenience for portability and storage. The MT-50 Series delivers exceptional optical clarity, ergonomic design, and mechanical reliability—a perfect balance of economy and quality for educational and clinical environments.



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INFINITY CORRECTED ACHROMAT PHASE CONTRAST OBJECTIVES

BUILT IN LED ILLUMINATION WITH INTERNAL POWER SUPPLY

MTA/MT-53

MTA/MT-53 Advanced BRIGHTFIELD & PHASE CONTRAST UNIVERSITY LEVEL COMPOUND BIOLOGICAL LED MICROSCOPE

The Meiji Techno MT-53 Series is an advanced trinocular biological microscope designed for both Phase Contrast (unstained tissue) and Brightfield (stained tissue) applications, making it ideal for laboratories, medical schools, veterinary clinics, and physician offices. Engineered for precision, durability, and affordability, it withstands the daily demands of busy academic and clinical environments. The 3-watt LED illumination system, rated for over 25,000 hours, provides consistent brightness without heat, preventing sample damage. Its rugged cast aluminum base ensures stability, while the reverse-position nosepiece allows easy objective changes and lens protection. Equipped with Plan Phase PH10x, PH20x, PH40x, and PH100x oil objectives, it delivers outstanding optical clarity and flexibility across magnifications. Optional C-mount adapters are available for CCD/CMOS cameras, making the MT-53 Series a versatile, high-performance microscope that blends professional quality with practical design.

| MODEL | BODY | ILLUMINATOR | EYEPIECES | OBJECTIVES | STAGE | CONDENSER |
|-----------|------------|---|---|---|---|---|
| MT-50 | Binocular | 3W INTENSITY ADJUSTABLE LED ILLUMINATION WITH INTERNAL POWER SUPPLY/CHARGER | PAIRED HWF 10X//20MM F.O.V. 30.0MM WITH DIOPTRER ADJUSTMENT | INFINITY F=200mm 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 IRIS DIAPHRAGM AND LEVER FOR HEIGHT ADJUSTABILITY |
| MT-51 | Trinocular | | | AUTO VOLTAGE SENSING POWER SUPPLY 100V - 240V | | |
| MTA-MT-53 | | | | | | |



for **UNIVERSITY**
STUDENTS & EDUCATORS



ATTACHABLE
**DIGITAL
CAMERA
SYSTEM**

**TRINOCULAR
TUBE**

Allows to attach a camera for capturing or displaying live images while viewing through the eyepieces simultaneously

EYEPIECES

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

**VIEWING
HEADS**

Binocular or Trinocular Viewing
Head, 45° inclined tube

OBJECTIVES

Reverse facing nosepiece with
Infinity Corrected Achromat
Phase Contrast PH10X,
PH20X, PH40X, PH100X- Oil
(MTA/MT-53 models)

STAGE

49mm x 138mm
Mechanical stage with X –
Y movement of 76mm x
50mm. With locked-on
specimen holder stage clip

CONDENSER

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

ILLUMINATION

Built-in 3W intensity
adjustable LED illuminator
provides constant, reliable,
pre-focused illumination.
Power supply, 100V – 240V

MT-51

**ADVANCED
UNIVERSITY LEVEL
MICROSCOPES
FOR EDUCATIONAL
PRACTICES**

**RUGGED
CAST METAL
FRAME
WITH TRIANGULAR
COMPACT SPACE
FOOTPRINT DESIGN**

**MECHANICAL
DROPDOWN**

Ergonomic X-Y right
handed dropdown
coaxial control

**FOCUSING
ADJUSTMENT**

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

**LIGHT
SWITCH**

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

LED MODULE

Easy access LED
Sliding Module
compartment for
quick replacement

Customer Support (U.S.A Based)

1-(800) 832-0060 (P.S.T.)

Package Information:

- Weight: 15lbs (6.8kg)
- Box Size: 21 x 15 x 11 inches

HDMI-USB 2.0 CAMERAS WITH 11.8" MONITOR

Requires a C - Mount Adapter MA151/MT51/03 or MA151/MT51/05

- 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.



HD1500MET-M

AVAILABLE C-MOUNT ADAPTERS FOR MT-50 SERIES

- MA151/MT51/03** C-mount adapter with 0.35X lens for MT-51
- MA151/MT51/05** C-mount adapter with 0.5X lens for MT-51
- MA701AS** Anti-static, washable dust cover for MT4000, MT5000, MT7000, MT6100, MT6500, MT-50, MT-60, 22" x 21" size, blue color

BRIGHTFIELD/DARKFIELD ACCESSORIES

- MT-50/** Darkfield/Brightfield slider for 4X – 40X objectives. Slides into standard
- BDFD-SLIDER** BF condenser slot of MT-50 and MT-51.



MTA/MT-53

IDEAL FOR ADVANCED STUDENTS
UNIVERSITY
ADVANCE MICROSCOPES FOR EDUCATIONAL APPLICATIONS



For more information about the MT-50 Series, scan this QR code.

Specifications and design subject to change without notice for improvements

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