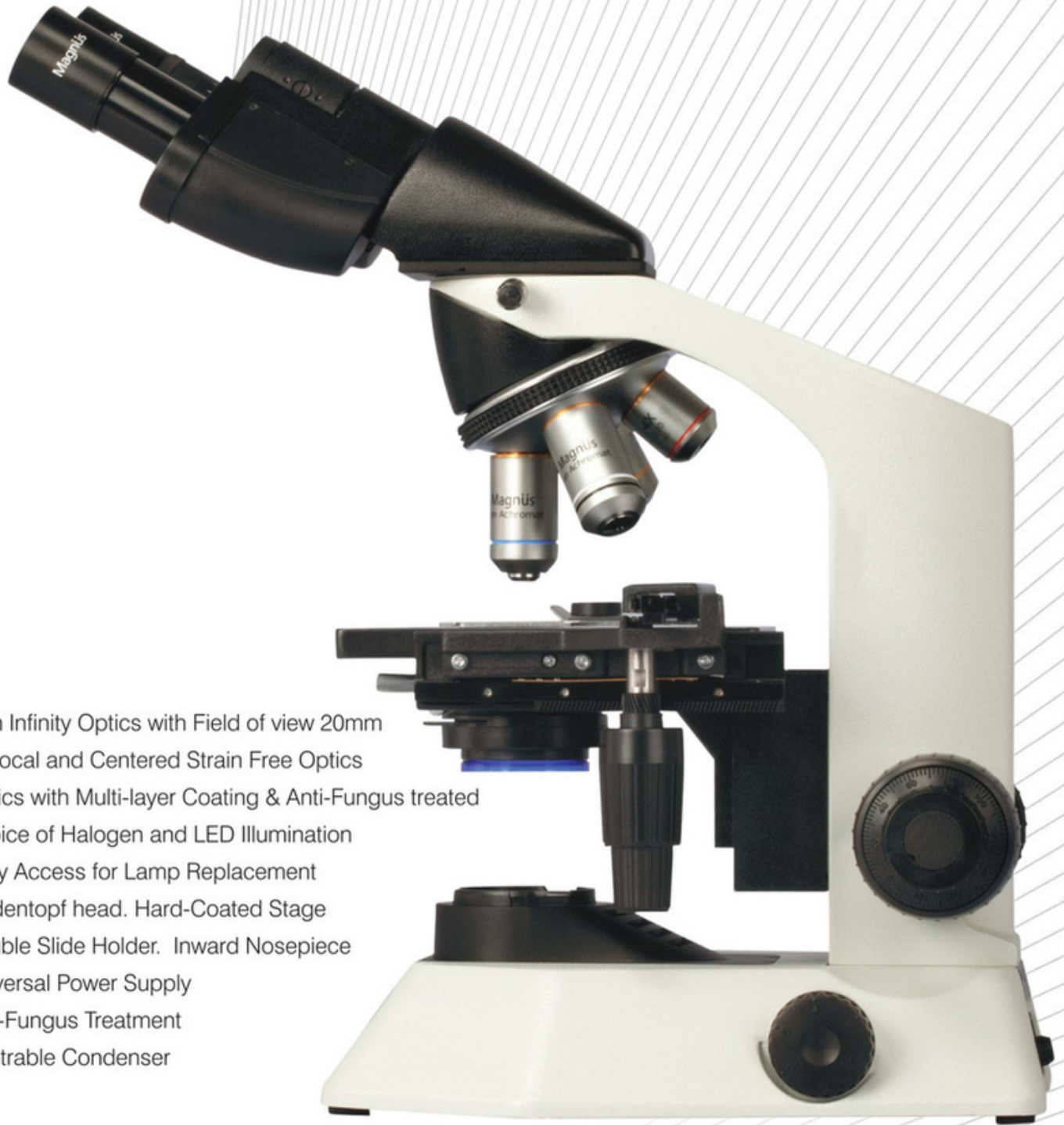




**MAGNUS**

**MLXi Plus**

MICROSCOPE MASTERCLASS



MLXi Plus Binocular Microscope



- Plan Infinity Optics with Field of view 20mm
- Parfocal and Centered Strain Free Optics
- Optics with Multi-layer Coating & Anti-Fungus treated
- Choice of Halogen and LED Illumination
- Easy Access for Lamp Replacement
- Siedentopf head. Hard-Coated Stage
- Double Slide Holder. Inward Nosepiece
- Universal Power Supply
- Anti-Fungus Treatment
- Centrable Condenser

MICROSCOPES FOR RESEARCH APPLICATIONS

# Specifications :

## MAGNUS Inclined Biological Microscope Model MLXi Plus /MLX i-TR Plus

ITEM	SPECIFICATIONS	MLXi Plus Binocular Version	MLX-i-TR Plus Trinocular Version
Optical System	Plan infinity strain free optics with Anti-fungus treatment, uniformly centered, interchangeable & Parfocal	●	●
Body	Aluminium die-cast body with all critical movements based on ball bearing & wire guides thereby ensuring smooth & precise manipulation	●	●
Mechanical Stage	Co-axial low drive mechanical stage (125mm x 145mm) (+/-5mm) with traverse area of 50mm x 76mm (+/-5mm) with double side holder	●	●
Focusing System	Co-axial coarse & fine controls with a focus adjustment and fine adjustment knobs. Coarse Focus range 20mm. Fine focus 0.2mm rotation	●	●
Condenser	Centerable abbe condenser with aperture iris diaphragm (N.A. 1.25) focusable with rack & pinion and a continuously variable iris diaphragm with a removable blue filter for daylight observation	●	●
Illumination base with option (a), (b), (c)	(a) Built-illumination base with pre-centered 6V 20W halogen light source with one bulb coupled with an efficient collector lens system. Front open Light case for easy bulb change. Universal power supply 100 V-240V 50/60Hz through SMPS circuit for constant voltage to prolong bulb life & prevent frequent bulb change. Optional 6V 30W Halogen Bulb	MLXi Plus	MLX-i-TR Plus
	(b) LED Light source High brightness, longlife (30,000hrs).	MLXi Plus LED	MLX-i-TR Plus LED
	(c) LED light source (with battery back-up) High brightness, longlife (30,000hrs). Battery back-up in-built NiMH Rechargeable batteries provide 6 to 8 hrs back-up on full charge.	MLXi Plus Freedom	MLX-i-TR Plus Freedom
Nose Piece	Quadruple revolving inward nosepiece based on precision ball-bearing mechanism with positive click stop. Quintuple nosepiece option is also available.	●	●
Objectives	Plan Achromat Objectives	N.A.	W.D.
	4X 10X 40X (spring loaded) 100X (oil, spring loaded)	0.10 0.25 0.65 1.25	18.5 mm 10.6 mm 0.6 mm 0.13 mm
	Infinity corrected plan optics Uniformly centered, Interchangeable & Parfocal Anti fungus treated Tropicalized anti fungus treatment ensures image excellence for long periods in conditions favoring to fungus growth	●	●
Inclined Observation Head <small>With a special anti-fungus treatment and an anti-reflection optical coating of the prism (to enhance the image brightness)</small>	Binocular (30 degree inclined siedentopf), 360 degree rotatable, Left diopter adjustment, Optical diopter adjustment on both side, Interpupillary distance adjustment 48-75mm.	●	
	Trinocular (30 degree inclined siedentopf), 360 degree rotatable, Left diopter adjustment, Optical diopter adjustment on both side, Interpupillary distance adjustment 48-75mm.		●
Eyepiece (wide field) for observation	WH 10x (FN 20mm) paired eyepiece. The unique optical design of the compensating eyepiece provides relief from eye fatigue and renders color-compensated wide-field images of utmost clarity. Compatible with optionally available eyepiece micrometer.	●	●

Packed in a Styrofoam box with Instruction manual, Dust Cover, Power Cord & Immersion oil (10ml). The reflector mirror, spare bulb & wooden cabinet are optionally available.

## Optional Accessories



**Reflected Fluorescence Attachment** uses a unique proprietary illumination system, allowing significant increase in performance and cost reduction. The EpiLED comes with a choice of blue, royal blue and green LED cassettes.

**Trinocular Head & Camera Adapters** that allow users to mount various kinds of digital cameras onto the trinocular head of the microscope for quick and easy digital documentation.

**Digital Camera System with Image Analysis Software**

- Phase contrast attachment • Polarization attachment • Optional Eyepiece: 15X • Köhler attachment • Optional objectives: 20X, 60X and no cover objective NC 40X for Epi LED for TB applications • Image analysis Software
- Heating Stage • Motorised Stage • Double layer mechanical stage • USB powered high resolution UCMOS camera (3mp, 5mp & 10mp) for BF applications & UHCCD (1.4mp camera) for Fluorescence applications

### MAGNUS OPTO SYSTEMS INDIA PRIVATE LIMITED

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All standard sets are supplied as per specifications which are subject to change without any obligation on the part of the manufacturer. Optics are anti-fungus treated & with multi-layer coatings. Accessories shown may not be part of standard equipment. MLXi Plus is sold as Theia-i in markets outside India.



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