

MLX Plus

MICROSCOPE MASTERCLASS



- 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
- Anti-Fungus Treatment

**Magnus**

MICROSCOPES FOR EDUCATION & LABORATORIES

# Specifications :

## MAGNUS Inclined Biological Microscope Model MLX-B Plus/MLX-TR Plus

| ITEM   | SPECIFICATIONS  | MLX-B Plus<br>Binocular<br>(SP) | MLX-TR Plus<br>Trinocular<br>(SP) | MLX-B Plus<br>Binocular<br>(PA) | MLX-TR Plus<br>Trinocular<br>(PA) |
|--|---|---------------------------------|-----------------------------------|---------------------------------|-----------------------------------|
| Optical System   | Semi-Plan (SP) Optics   | ●                               | ●                                 |                                 |                                   |
|  | Plan Achromat (PA) Optics   |                                 |                                   | ●                               | ●                                 |
| Body   | Aluminium die cast body with all critical movements based on ball bearing and wire guides, thereby ensuring smooth and precise manipulation.  | ●                               | ●                                 | ●                               | ●                                 |
| Inclined Observation Head  | Binocular 45 degree inclined, rotatable through 360 degrees   | ●                               |                                   | ●                               |                                   |
|  | Trinocular 45 degree inclined, rotatable through 360 degrees  |                                 | ●                                 |                                 | ●                                 |
| Eyepieces (widefield) for observation  | HWF 10x (FN 18mm) 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.   | ●                               | ●                                 | ●                               | ●                                 |
| Nosepiece  | Quadruple revolving nosepiece based on precision ball-bearing mechanism with positive stop click.   | ●                               | ●                                 | ●                               | ●                                 |
| Objectives<br>Uniformly centered,<br>Interchangeable & Parfocal,<br>Anti-Fungus treated  | Semi-Plan Achromat objectives:<br>SP4X N.A 0.10, SP10X N.A 0.25, SP40X N.A 0.65 (spring)<br>SP100X N.A 1.25 (oil, spring)   | ●                               | ●                                 |                                 |                                   |
|  | Plan Achromat Objectives:<br>PA 4X N.A 0.10, PA 10X N.A 0.25, PA 40X N.A 0.65 (spring)<br>PA100X N.A 1.25 (oil, spring)   |                                 |                                   | ●                               | ●                                 |
| Mechanical Stage   | Co-axial low drive mechanical stage (125mm x 145mm) (±5mm) with traverse area of 50mm x 76mm (±5mm)   | ●                               | ●                                 | ●                               | ●                                 |
| Condenser  | 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. Rack & pinion mounted condenser holder.   | ●                               | ●                                 | ●                               | ●                                 |
| Focusing   | Co-axial coarse & fine controls with a focus adjustment and fine adjustment knobs. Coarse Focus range 20mm.   | ●                               | ●                                 | ●                               | ●                                 |
| Illumination base with option  | a) Built-in-illumination base with pre-centered 6V 20W halogen light source coupled with an efficient collector lens system. Universal Power supply 100V~240V AC 50/60Hz (SMPS). Supplied with one bulb & one spare fuse. Easily replaceable lamp from front.               |                                 |                                   | ●                               | ●                                 |
|  | b) Built-in-illumination base with pre-centered 6V 20W halogen light source coupled with an efficient collector lens system. Transformer based Power supply 100V~240V AC 50/60Hz single phase. Supplied with one bulb & one spare fuse. Easily replaceable lamp from front. | ●                               | ●                                 |                                 |                                   |
|  | c) LED light source High brightness, long life (30000 hrs).   | MLX-B Plus<br>LED (SP)          | MLX-TR Plus<br>LED (SP)           | MLX-B Plus<br>LED (PA)          | MLX-TR Plus<br>LED (PA)           |
|  | d) LED light source (with battery backup) High brightness, long life (30000 hrs). Battery backup in-built NiMH Rechargeable batteries provide 6-8 hours back-up on full charge.   | MLX-B Plus<br>Freedom<br>(SP)   | MLX-TR Plus<br>Freedom<br>(SP)    | MLX-B Plus<br>Freedom<br>(PA)   | MLX-TR Plus<br>Freedom<br>(PA)    |
| Packed in a styrofoam box, with operation manual, dust cover, power cord & immersion oil (5ml).<br>The reflector mirror, spare bulb & wooden cabinet are optionally available. |   |                                 |                                   |                                 |                                   |

## Optional Accessories

MLX-B Plus is sold as Theia-Fi in markets outside India.

• Simple Polarizing Attachment • Eyepiece Widefield WF 15x • Objective 20x • Double Layer Mechanical stage •



Trinocular Head for MLX Plus  
with Camera



Digital Camera System  
with Image Analysis Software



Phase Contrast Attachment PC-4



Darkfield attachment  
Imm. DF Condenser with OBJ 100x having Iris Diaphragm  
Dry. DF condenser

# Magnus

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Specifications and appearances are subject to change without any notice or obligation on the part of the manufacturer.

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