

# MLXi Plus Pro

## MICROSCOPE MASTERCLASS



- Plan Infinity Optics with Field of view 22mm
- Parfocal and Centered Strain Free Optics
- Optics with Multi-layer Coating & Anti-Fungus treated
- Choice of Halogen, LED Illumination & Battery backup
- Easy Access for Lamp Replacement
- Siedentopf Butterfly head. Hard coated Rackless stage
- Inward Quintuple Nosepiece
- Universal Power Supply
- Anti-Fungus Treatment
- Centrable Condenser

# Magnus

MLXi Plus Pro Binocular Microscope

## MICROSCOPES FOR RESEARCH APPLICATIONS

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# Specifications :

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

| ITEM                                                                                                                                                                   | SPECIFICATIONS                                                                                                                                                                                                                                                                                                                                             |                                              |                                                          | MLXi Plus Pro<br>Binocular<br>Version | MLXi-TR Plus<br>Pro Trinocular<br>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 rackless stage (125mm x 145mm) ( + /-5mm) with traverse area of 30mm x 76mm ( + /-5mm)                                                                                                                                                                                                                                       |                                              |                                                          | ●                                     | ●                                         |
| 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                                                                                                                                                                                                                 |                                              |                                                          | ●                                     | ●                                         |
| Illumination base with option<br>(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 Pro                         | MLXi-TR Plus Pro                          |
|                                                                                                                                                                        | (b) LED Light source High brightness, longlife (30,000hrs).                                                                                                                                                                                                                                                                                                |                                              |                                                          | MLXi Plus Pro LED                     | MLXi-TR Plus Pro 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 Pro Freedom                 | MLXi-TR Plus Pro Freedom                  |
| Nose Piece                                                                                                                                                             | Quintuple revolving inward nosepiece based on precision ball-bearing mechanism with positive click stop.                                                                                                                                                                                                                                                   |                                              |                                                          | ●                                     | ●                                         |
| Objectives                                                                                                                                                             | Plan Achromat Objectives<br>4X<br>10X<br>20X<br>40X (spring loaded)<br>100X (oil, spring loaded)<br>Infinity corrected plan optics<br>Uniformly centered, Interchangeable & Parfocal<br>Anti fungus treated<br>Tropicalized anti fungus treatment ensures image excellence for long periods in conditions favoring to fungus growth                        | N.A.<br>0.10<br>0.25<br>0.45<br>0.65<br>1.25 | W.D.<br>18.5 mm<br>10.6 mm<br>2.4mm<br>0.6 mm<br>0.13 mm | ●                                     | ●                                         |
| Inclined Observation Head<br><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 butterfly head), 360 degree rotatable.                                                                                                                                                                                                                                                                            |                                              |                                                          | ●                                     |                                           |
|                                                                                                                                                                        | Trinocular (30 degree inclined siedentopf butterfly head), 360 degree rotatable.                                                                                                                                                                                                                                                                           |                                              |                                                          |                                       | ●                                         |
| Eyepiece (wide field) for observation                                                                                                                                  | WH 10x (FN 22mm) paired eyepiece, one fixed type eyepiece and one diopter eyepiece. Compatible with optionally available eyepiece micrometer.                                                                                                                                                                                                              |                                              |                                                          | ●                                     | ●                                         |

Packed in a Corrugated box with Instruction manual, Dust Cover, Power Cord & Immersion oil (5ml). The reflector mirror, spare bulb & wodden cabinet are optionally available.

## Optional Accessories



Epi LED



**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: 60X and no cover objective NC 40X for Epi LED for TB applications • Image analysis Software
- Heating Stage • Motorised Stage • Double layer mechanical rackless stage • USB powered high resolution UCMOS camera (3mp, 5mp & 10mp) for BF applications & UHCCD (1.4mp camera) for Fluorescence applications