



**MAGNUS**

Biological Microscope

## Phase Contrast

Microscope Masterclass



Phase Contrast Attachment

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# Phase Contrast Biological Microscope Specifications

Item	Specifications	MLXi Plus Binocular Version	MLXi Plus Trinocular Version
Body	Alluminium die-cast body with all critical movements based on ball bearing and wire guides thereby ensuring smooth and precise motions	✓	✓
Mechanical Stage	Co-axial low drive double layer mechanical stage (125mm x 145mm) (+/- 5mm) with traverse area of 50mm x 76mm (+/- 5mm) with dual slide holder	✓	✓
Focusing System	Co-axial coarse and fine controls with a focus adjustment and fine adjustment knobs.Coarse focus range 20mm. Fine focus rotation 0.2mm	✓	✓
Condenser Holder	Rack and pinion mounted condenser holder	✓	✓
Universal Condenser T-UCD	Universal condenser for Bright Field. Dark field and 5-Position turnet for phase contrast, easy and smooth change over. Compact Clear View Centering Telescope (CT) with high grade optical design & green glass filter for high contrast	✓	✓
Illumination Base with Option	(a) Build-in illumination base with pre-centered 6V 20W halogen light source coupled with an efficient collector lens system. Universal power supply 100V-230V AC 50Hz single phase	MLXi Plus	MLXi Plus Tr
	(b) 3W LED light source high brightness, longlife (30,000 hrs)	MLXi Plus LED	MLXi Plus-Tr-LED
	(c) LED light source (with battery back-up) high brightness, longlife (30,000 hrs). Battery back-up NiMH rechargeable batteries provides 6 to 8 hrs back-up on full charge	MLXi Plus Freedom	MLXi Plus-Tr Freedom
Nosepiece	Quadruple revolving inward nosepiece based on precision ball-bearing mechanism with positive click stop	✓	✓
Objectives	Infinite phase contrast plan objectives	N.A	
	PH10x 0.25 PH20x 0.45 PH40x (spring loaded) 0.65 PH100x (oil, spring loaded) 1.25 Infinity corrected plan phase contrast optics Uniformly centered, interchangeable & parfocal Anti-fungus treated, chromatic aberration corrected lenses	✓	✓
Inclined Observation Head	Binocular head (30 degree inclined seidentopf). 360 degree rotatable, diopter adjustment	✓	
	Trinocular head (30 degree inclined seidentopf). 360 degree rotatable, diopter adjustment		✓
Eyeiece (wide field) for Observation	WH 10x (FN 20mm) paired eyepiece (with anti-fungus optics). The unique optical design provides relief from eye fatigue and renders wide-field images of utmost clarity. Compatible with optionally available eyepiece micrometer	✓	✓
Packed in a corrugated box, with user manual, dust cover, immersion oil (5ml), lens cleaning cloth, Frosted filter & Blue filter			

## Key Features

- Japaneese-design optimum transmission phase coatings
- High resolution phase contrast objectives
- Prominent observation of unstained cells
- Optimised for sperm and live cell analysis

