



Model:
IM-3LD

Typology:
INVERTED RESEARCH MICROSCOPE

Description:
Laboratory inverted microscope for research applications. Dye-cast frame, with high stability and ergonomy, for transmitted light and reflected fluorescence observation.

Illumination	<p>Transmitted Light: Light source type X-LED[®] with white 8W LED; light intensity control using a knob on left side of the frame. Color temperature: 6300K LED average life time approx. 50.000h Voltage: 110/240Vac, 50/60Hz, 1A ; Fuse: T500mA 250V Max power required: 13W</p> <p>Reflected Fluorescence Light: High efficiency LED, 18W. Light intensity control using a knob on left side of the frame. LED average life time approx. 50.000h Voltage: 110/240Vac, 50/60Hz, 1A ; Fuse: T500mA 250V Max power required: 24W</p>
Observation Modes	Brightfield, phase contrast, fluorescence B and G.
Focusing	Macro- and micrometric adjustment, with coaxial knobs on both sides of the stand. Adjustable tension.
Stage	Fixed stage, dimensions 250x160 mm. Glass stage insert with hole for small dimension specimens. OPTIONAL: Mechanical stage mountable on the right side of the stage, total dimension=250x230 mm, X-Y translation range 120x80 mm, Metallic interchangeable inserts for slides, Petri dishes, Terasaki, multi-Well plates, etc.
Nosepiece	5 positions, with bidirectional rotation on ball bearings and click stop.
Head	Trinocular: 45° inclined. Interpupillary distance: 50-75 mm. Adjustable dioptric compensation. Splitting ratios eyepieces-photo tube: 100/0, 0/100.
Eyepieces	Wide field 10x/22mm, High-point.
Objectives	Infinity corrected optical system IOS (Infinity Optical System). Plan-achromatic LWD objectives infinity corrected, for thickness 1.2 mm, made by following objectives: -) Plan-achromatic IOS LWD 10XPh, N.A. 0.25, W.D. 7.94 mm -) Plan-achromatic IOS LWD 20XPh, N.A. 0.40, W.D. 7.66 mm -) Plan-achromatic IOS LWD 40XPh, N.A. 0.60, W.D. 3.71 mm All objectives are treated with an anti-fungus treatment.
Condenser	Long working distance condenser, numerical aperture 0.30, working distance 72 mm. The condenser can be removed in order to increase the working distance to 150 mm.
Epi-fluorescence filterset	Blue and Green fluorescence filtersets: Fluorescence B: EX 450-490, DM 495, EM 520LP. Fluorescence G: EX 540-580, DM 585, EM 590LP.
Brightfield filterset	Interferential IF550 green filter.
Dimensions	HEIGHT: 495 mm WIDTH: 230 mm WIDTH WITH OPTIONAL MECHANICAL STAGE: 300 mm DEPTH: 540 mm WEIGHT: 9 kg
Accessories	Anti-glow fluorescence cap. Instruction manual and dust cover included.