



Model:
IM-5FLD

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-LED⁵ with white 5 W LED. Color temperature: 5,000 K.</p> <p>Reflected Fluorescence Light: High-Intensity LED sources, 5 W each: Blue LED: 470 nm Green LED: 560 nm UV LED: 385 nm Optional LED on request. Insertion of LED source is motorized, following the position of the filter selector lever.</p> <p>Light intensity control using knobs on both sides of the frame (separated controls for brightfield and fluorescence light). LED average life time approx. 60,000 h. External power supply: Input 100-240 Vac 50-60 Hz / Output 12 Vdc 5 A. Max power required: 20 W.</p> <p>Eco Function: when activated, the light is completely shut down after 20 minutes of user absence.</p>
Observation Modes	Brightfield, Phase Contrast, Darkfield and Fluorescence.
Focusing	Coaxial coarse and fine focusing mechanism (graduated, 0.002 mm) with upper stop, to prevent the contact between objective and specimen. Adjustable tension of coarse focusing knob.
Stage	Fixed stage dimensions: 215x250 mm. 2 stage inserts (glass and metal) with hole for small dimension specimens. Mechanical stage mountable on the right side of the stage, total dimension: 290x250 mm, X-Y translation range 120x80 mm, metallic interchangeable inserts for slides, Petri dishes, Terasaki, multi-Well plates, etc.
Nosepiece	Quintuple revolving nosepiece, rotation on ball bearings.
Head	Trinocular observation head, inclined 45°. Interpupillary adjustment 50-75 mm. Splitting ratios eyepieces/photo tube: 100/0, 0/100.
Eyepieces	Plan Extra Wide Field, PL 10x/24, High Eyepoint, with Diopter adjustment. Centering Telescope.
Objectives	Infinity corrected optical system IOS (Infinity Optical System). All objectives are treated with an anti-fungus treatment. Choice among the following items: Plan-achromatic LWD objectives, designed to ensure field flatness up to F.N. 22, made by following objectives: IOS LWD W-PLAN 4x/0.13, W.D. 10.4 mm (M-782) IOS LWD W-PLAN 40x/0.60, W.D. 3.1 mm (M-773) IOS LWD W-PLAN 60x/0.70, W.D. 1.7 mm (M-786) IOS LWD W-PLAN PH 4x/0.13, W.D. 10.4 mm (M-782.1) IOS LWD W-PLAN PH 10x/0.25, W.D. 7.3 mm (M-783N) IOS LWD W-PLAN PH 20x/0.40, W.D. 6.8 mm (M-784N) IOS LWD W-PLAN PH 40x/0.65, W.D. 3 mm (M-785)

	<p>Semi-Apochromatic LWD objectives, designed to ensure field flatness up to F.N. 25, made by following objectives:</p> <p>IOS LWD U-PLAN F 4x/0.13, W.D. 18.52 mm (M-800) IOS LWD U-PLAN F 10x/0.30, W.D. 7.11 mm (M-801) IOS LWD U-PLAN F 20x/0.45, W.D. 5.91 mm (M-802) IOS LWD U-PLAN F 40x/0.65, W.D. 1.61 mm (M-803) IOS LWD U-PLAN F 60x/0.75, W.D. 1.04 mm (M-804)</p> <p>IOS LWD U-PLAN F PH 20x/0.45, W.D. 5.91 mm (M-1177) IOS LWD U-PLAN F PH 40x/0.65, W.D. 1.61 mm (M-1178)</p>
Condenser	<p>Transmitted Light: Köhler condenser, N.A. 0.50, working distance 28 mm. Field and aperture diaphragms. The condenser can be rotated out of the optical path, extending the working distance to 220 mm. Slider with 4x/10x and 20x/40x precentered phase rings. Slider with Darkfield stop for dry objectives.</p> <p>Reflected Fluorescence Light: Field diaphragm, centrable.</p>
Epi-fluorescence filterset	<p>Blue, Green, UV fluorescence filtersets: Fluorescence B: EX 470/40, DM 495, EM 525/50. Fluorescence G: EX 560/40, DM 585, EM 645/75. Fluorescence UV: EX 365/50, DM 400, EM 420LP.</p>
Brightfield filterset	<p>Interferential IF550 green filter. LBD daylight filter.</p>
Dimensions	<p>HEIGHT: 545 mm WIDTH: 290 mm DEPTH: 720 mm WEIGHT: 13 kg</p>
Accessories	<p>Phase contrast slider included. Instruction manual and dust cover included.</p>



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