Rev. 01

Model:
IM-2FL

Typology:
INVERTED RESEARCH MICROSCOPE

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

Illumination	**Transmitted Light:** Light source type X-LED⁸ with white 8W LED; light intensity control using a knob on front 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 **Reflected Light:** Mercury burner 100W HBO, light control based on external power supply. Bulb average life time approx. 300 hours. Voltage: 10/240Vac, 50/60Hz, 1A ; Fuse: F8AL 250V Max power required: 125W
Observation Modes	Brightfield, phase contrast, Fluorescence B and G Fluorescence B: EX 460-490, DM 500, EM 520LP; Fluorescence G: EX 480-550, DM 570, EM 590LP;
Fluorochromes	**2 positions fluorescence filter holder:** **Excitation B:** Acridine Yellow, Acridine Orange, Auramine, DiO, DTAF, FITC, GFP, YFP, ecc. **Excitation G:** DiL; Blu Evans, Feulgen, Rhodamine, Texas Red, TRITC, PI, ecc.
Focusing	Coaxial coarse and fine focusing mechanism (graduated, 0.002mm) with upper stop, to prevent the contact between objective and specimen. Adjustable tension of coarse focusing knob.
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, with metallic interchangeable inserts for slides, Petri dishes, Terasaki, multi-Well plates, etc. Pair of side extensions to expand the surface of the stage.
Nosepiece	Quintuple revolving nosepiece, rotation on ball bearings.
Head	Trinocular observation head, inclined 30° and rotatable 360°. Diopter adjustment on left eyepiece. Interpupillary adjustment 48-75 mm. Splitting ratios eyepieces-photo tube: 100/0, 50-50
Eyepieces	Wide field eyepieces EWF10X/22 with field number 22.
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 4X, N.A. 0.10, W.D. 18.0 mm -) Plan-achromatic IOS LWD 10XPh, N.A. 0.25, W.D. 10.0 mm -) Plan-achromatic IOS LWD 20XPh, N.A. 0.40, W.D. 5.1 mm -) Plan-achromatic IOS LWD 40X, N.A. 0.60, W.D. 2.6 mm All objectives are treated with an anti-fungus treatment.
Condenser	LWD condenser, N.A. 0.30, working distance 72 mm. The condenser can be removed to extend the working distance up to 150 mm. Precentered slider with 10X/20X phase ring.
Dimensions	HEIGHT: 495 mm WIDTH: 250 mm WIDTH WITH OPTIONAL MECHANICAL STAGE: 330 mm DEPTH: 730 mm WEIGHT: 10 kg
Accessories	Green and frosted filter. Instruction manual and dust cover included.