Model:
IM-3F

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	**Transmitted Light:** Light source type X-LED⁸ with white 8 W LED; light intensity control using a knob on left side of the frame. Color temperature: 6,300 K LED average life time approx. 50,000 h Voltage: 110/240 Vac, 50/60 Hz, 1A ; Fuse: T500 mA 250 V Max power required: 13 W **Reflected Light:** Mercury burner 100 W HBO, light control based on external power supply. Bulb average life time approx. 300 hours. Voltage: 10/240 Vac, 50/60 Hz, 1A; Fuse: F8AL 250 V. Max power required: 125 W
Observation Modes	Brightfield, Phase Contrast, Fluorescence B and G.
Filter Set	**Fluorescence B: EX 460-490, DM 500, EM 520LP;** **Fluorescence G: EX 480-550, DM 570, EM 590LP;** 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, 0.002 mm) with upper stop, to prevent the contact between objective and specimen. Adjustable tension of coarse focusing knob.
Stage	Fixed stage, dimensions 250x160 mm. 2 stage insert (glass and metal) 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 45°. Diopter adjustment on left eyepiece. Interpupillary adjustment 50-75 mm. Splitting ratios eyepieces-photo tube: 100/0, 0/100
Eyepieces	Plan Extra Wide Field, PL 10x/22, High Eyepoint.
Objectives	Infinity corrected optical system IOS (Infinity Optical System). Plan-achromatic LWD objectives infinity corrected, for thickness 1.2 mm, made by following objectives: -) IOS LWD W-PLAN 4x/0.10, W.D. 16.9 mm -) IOS LWD W-PLAN PH 10x/0.25, W.D. 7.94 mm -) IOS LWD W-PLAN PH 20x/0.40, W.D. 7.66 mm -) IOS LWD W-PLAN 40x/0.60, W.D. 3.71 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 4x/10x and 20x/40x phase rings.
Dimensions	HEIGHT: 495 mm WIDTH: 230 mm WIDTH WITH OPTIONAL MECHANICAL STAGE: 300 mm DEPTH: 730 mm WEIGHT: 10 kg
Accessories	Green filters (IF550). Instruction manual and dust cover included.