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.*

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| **Illumination** | **Transmitted Light:**<br>Light source type X-LED⁸ with white 8W LED; light intensity control using a knob on front side of the frame.<br>Color temperature: 6300K<br>LED average life time approx. 50.000h<br>Voltage: 110/240Vac, 50/60Hz, 1A ; Fuse: T500mA 250V<br>Max power required: 13W<br>**Reflected Light:**<br>Mercury burner 100W HBO, light control based on external power supply.<br>Bulb average life time approx. 300 hours.<br>Voltage: 10/240Vac, 50/60Hz, 1A ; Fuse: F8AL 250V<br>Max power required: 125W |
| **Observation Modes** | Brightfield, phase contrast, Fluorescence B and G<br>Fluorescence B: EX 460-490, DM 500, EM 520LP;<br>Fluorescence G: EX 480-550, DM 570, EM 590LP; |
| **Fluorochromes** | **2 positions fluorescence filter holder:**<br>**Excitation B:**<br>Acridine Yellow, Acridine Orange, Auramine, DiO, DTAF, FITC, GFP, YFP, ecc.<br>**Excitation G:**<br>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.<br>Glass stage insert with hole for small dimension specimens.<br>**OPTIONAL**:<br>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.<br>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°.<br>Diopter adjustment on left eyepiece.<br>Interpupillary adjustment 48-75 mm.<br>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).<br>Plan-achromatic LWD objectives infinity corrected, for thickness 1.2 mm, made by following objectives:<br>-) Plan-achromatic IOS LWD 4X, N.A. 0.10, W.D. 18.0 mm<br>-) Plan-achromatic IOS LWD 10XPh, N.A. 0.25, W.D. 10.0 mm<br>-) Plan-achromatic IOS LWD 20XPh, N.A. 0.40, W.D. 5.1 mm<br>-) Plan-achromatic IOS LWD 40X, N.A. 0.60, W.D. 2.6 mm<br>All objectives are treated with an anti-fungus treatment. |
| **Condenser** | LWD condenser, N.A. 0.30, working distance 72 mm.<br>The condenser can be removed to extend the working distance up to 150 mm.<br>Precentered slider with 10X/20X phase ring. |
| **Dimensions** | HEIGHT: 495 mm<br>WIDTH: 250 mm WIDTH WITH OPTIONAL MECHANICAL STAGE: 330 mm<br>DEPTH: 730 mm<br>WEIGHT: 10 kg |
| **Accessories** | Blue, green and frosted filter.<br>Instruction manual and dust cover included. |