



Model:  
**IM-3FL / IM-3FL4**

Typology:  
**INVERTED RESEARCH MICROSCOPE**

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

<b>Illumination</b>	<p><b>Transmitted Light:</b> Light source type X-LED<sup>®</sup> 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><b>Reflected Light:</b> 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</p>
<b>Observation Modes</b>	<p>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; Fluorescence UV (optional): EX 325-375, DM 400, EM 420LP; Fluorescence V (optional): EX 385-425, DM 440, EM 455LP.</p>
<b>Filter Set</b>	<p><b>IM-3FL4: version with 4 positions fluorescence filter holder.</b> <b>IM-3FL: version with 2 positions fluorescence filter holder.</b></p> <p><u>Excitation B:</u> Acridine Yellow, Acridine Orange, Auramine, DiO, DTAF, FITC, GFP, YFP, ecc. <u>Excitation G:</u> DiI; Blu Evans, Feulgen, Rhodamine, Texas Red, TRITC, PI, ecc. <u>Excitation UV (optional):</u> AMCA, AutoFluorescence, BAO, BFP, Blu Cascade, DANS, DAPI, Hoechst, Indo-1, SITA, ecc. <u>Excitation V (optional):</u> ANS, Fluorescamine, Catecholamine, ecc.</p>
<b>Focusing</b>	<p>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.</p>
<b>Stage</b>	<p>Fixed stage, dimensions 250x160 mm. 2 stage insert (glass and metal) with hole for small dimension specimens. <b>OPTIONAL:</b> 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.</p>
<b>Nosepiece</b>	<p>Quintuple revolving nosepiece, rotation on ball bearings.</p>
<b>Head</b>	<p>Trinocular observation head, inclined 45°. Diopter adjustment on left eyepiece. Interpupillary adjustment 50-75 mm. Splitting ratios eyepieces-photo tube: 100/0, 0/100</p>
<b>Eyepieces</b>	<p>Wide field eyepieces WF10X/22 with field number 22.</p>
<b>Objectives</b>	<p>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 FLUO LWD 10X, N.A. 0.30, W.D. 10.0 mm -) Plan-achromatic IOS FLUO LWD 20X, N.A. 0.45, W.D. 5.1 mm -) Plan-achromatic IOS FLUO LWD 40X, N.A. 0.65, W.D. 2.6 mm All objectives are treated with an anti-fungus treatment.</p>
<b>Condenser</b>	<p>LWD condenser, N.A. 0.30, working distance 72 mm. The condenser can be removed to extend the working distance up to 150 mm.</p>
<b>Dimensions</b>	<p>HEIGHT: 495 mm WIDTH: 230 mm                      WIDTH WITH OPTIONAL MECHANICAL STAGE: 300 mm DEPTH: 730 mm WEIGHT: 10 kg</p>
<b>Accessories</b>	<p>Blue (LBD) and green filters (IF550). Instruction manual and dust cover included.</p>