



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>



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The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

