



Model:
XDS-3FL & XDS-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.*

Illumination	<p>Transmitted Light: Light source type X-LED8 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>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</p>
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; Fluorescence UV (optional): EX 325-375, DM 400, EM 420LP; Fluorescence V (optional): EX 385-425, DM 440, EM 455LP.
Fluorochromes	<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>
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 250x230 mm. Mechanical stage mountable on the right side of the stage, X-Y translation range 114x81 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. Glass stage insert with hole for small dimension specimens.
Nosepiece	Quintuple revolving nosepiece, rotation on ball bearings.
Head	Trinocular observation head, inclined 45°. Diopter adjustment on left eyepiece. Interpupillary adjustment 55-75 mm. Splitting ratios eyepieces-photo tube: 100/0, 20/80
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 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.
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.
Dimensions	HEIGHT: 485 mm WIDTH: 300 mm DEPTH: 600 mm WEIGHT: 10 kg
Accessories	Interferential filter IF550, blu filter LBD. Instruction manual and dust cover included.
Notes	Model XDS-3FL4 : version with 4 positions fluorescence filter holder.