



Model:

B-500TiFL

Typology:

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

Illumination	<p>Transmitted Light: Light source type X-LED with white LED; light intensity control using a knob on left side of the frame. LED power 3.6W, comparable to an halogen bulb 50W. Color temperature: 6300K LED average lifetime approx.: 50.000h. The light exit can be used as a filter holder for additional filters (blue, yellow, frosted). Voltage: 110/230Vac, 50/60Hz, 0.4/0.8A; Fuse: T3.15A 250V Max power required: 7W</p> <p>Reflected Light: Mercury burner 100W HBO, light controlled by an external power supply. Bulb average lifetime approx.: 300 hours. Voltage: 100/240Vac, 50/60Hz Fuse: T3.15A 250V Max power required: 130W</p>
Observation Modes	Brightfield, Fluorescence B and G Fluorescence B: EX 450-490, DM 495, EM 500-550; Fluorescence G: EX 540-580, DM 585, EM 607-683; Fluorescence UV (optional): EX: 325-375 , DM 415, EM 435LP; Fluorescence V (optional): EX 390-420, DM 440, EM 450LP.
Filter Set	<p>4 positions fluorescence filter holder:</p> <p>Excitation B: Acridine Yellow, Acridine Orange, Auramine, DiO, DTAF, FITC, GFP, YFP, ecc.</p> <p>Excitation G: DiI; Blu Evans, Feulgen, Rhodamine, Texas Red, TRITC, PI, ecc.</p> <p>Excitation UV (optional): AMCA, AutoFluorescence, BAO, BFP, Blu Cascade, DANS, DAPI, Hoechst, Indo-1, SITA, ecc.</p> <p>Excitation V (optional): 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	Double layer with mechanical sliding stage, size 175x145mm, X-Y movement range 76x52, specimen holder for two slides. Vernier scale on the two axes, accuracy 0,1 mm.
Nosepiece	Quintuple revolving nosepiece, rotation on ball bearings.
Head	Trinocular observation head, inclined 30° and rotatable 360°. Diopter adjustment on left eyepiece sleeve. Interpupillary adjustment 55-75 mm.
Objectives	Infinity corrected optical system IOS (Infinity Optical System). Plan-achromatic IOS FLUO objectives: -) Plan-achromatic IOS 4X, A.N. 0.13, W.D. 4,7 mm -) Plan-achromatic IOS 10X, A.N. 0.30, W.D. 4,1 mm -) Plan-achromatic IOS 20X, A.N. 0.50, W.D. 1,45 mm -) Plan-achromatic IOS 40X, A.N. 0.75, W.D. 0,50 mm All objectives are treated with an anti-fungus treatment.
Condenser	Swing-out type, A.N. 0.90 with centering system.
Eyepieces	Wide field eyepieces WF10X/22 with field number 22.
Dimensions	HEIGHT: 480 mm (with attachment) / 435 mm (without attachment) WIDHT: 245 mm DEPTH: 380 mm WEIGHT: 9 kg
Accessories	Instruction manual and dust cover included