



Model:

B-500POL

Typology:

RESEARCH MICROSCOPE

Description:

Laboratory microscope for research applications.

Dye-cast frame, with high stability and ergonomics, for transmitted light observation.

Illumination	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 35W. 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
Observation Modes	Brightfield, Polarized transmitted light
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	Rotatable stage with locking system and Vernier scale with accuracy 0,1 mm. Diameter 160 mm. Specimen clamps.
Nosepiece	Quadruple revolving nosepiece, rotation on ball bearings. Centering system on each objective.
Head	Trinocular observation head, inclined 30° and rotatable 360°. Diopter adjustment on left eyepiece sleeve. Interpupillary adjustment 55-75 mm.
Eyepieces	Wide field eyepieces WF10X/22 with field number 22. One eyepiece has a built-in crosshair reticle for the centering of the optical path.
Objectives	Infinity corrected optical system IOS (Infinity Optical System). Plan-achromatic "strain-free" objectives infinity corrected, made by following objectives: -) PLAN IOS POL 4X, A.N. 0.10, W.D. 4,7 mm -) PLAN IOS POL 10X, A.N. 0.25, W.D. 4,1 mm -) PLAN IOS POL 40X, A.N. 0.65, W.D. 0,5 mm -) PLAN IOS POL 60X, A.N. 0.85, W.D. 0,1 mm All objectives are treated with an anti-fungus treatment.
Condenser	Abbe condenser, N.A. 0,9 with centering system. Rotatable polarizer with graduated scale (it can be excluded from optical path through rotation).
Bertrand Lens	Swing-out type with centering and focusing mechanism for observation in conoscopy/orthoscopy. Rotatable analyzer from 0° to 90° with graduated scale. Tint plates included: -) 1° order red (1 lambda) -) ¼ lambda -) Quartz wedge
Dimensions	HEIGHT: 480 mm WIDTH: 245 mm DEPTH: 380 mm WEIGHT: 9 kg
Accessories	Instruction manual and dust cover included.