



Model:

**B-500POL**

Typology:

**RESEARCH MICROSCOPE**

**Description:**

*Laboratory microscope for research applications.*

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

<b>Illumination</b>	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
<b>Observation Modes</b>	Brightfield, Polarized transmitted light
<b>Focusing</b>	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.
<b>Stage</b>	Rotatable stage with locking system and Vernier scale with accuracy 0,1 mm. Diameter 160 mm. Specimen clamps.
<b>Nosepiece</b>	Quadruple revolving nosepiece, rotation on ball bearings. Centering system on each objective.
<b>Head</b>	Trinocular observation head, inclined 30° and rotatable 360°. Diopter adjustment on left eyepiece sleeve. Interpupillary adjustment 55-75 mm.
<b>Eyepieces</b>	Wide field eyepieces WF10X/22 with field number 22. One eyepiece has a built-in crosshair reticle for the centering of the optical path.
<b>Objectives</b>	Infinity corrected optical system <b>IOS</b> (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.
<b>Condenser</b>	Abbe condenser, N.A. 0,9 with centering system. Rotatable polarizer with graduated scale (it can be excluded from optical path through rotation).
<b>Bertrand Lens</b>	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
<b>Dimensions</b>	HEIGHT: 480 mm    WIDTH: 245 mm DEPTH: 380 mm    WEIGHT: 9 kg
<b>Accessories</b>	Instruction manual and dust cover included.