



Model:

B-500POL-I

Typology:

RESEARCH POLARISING MICROSCOPE

Description:

Laboratory microscope for research applications.

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

Illumination	<p>TRANSMITTED 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).</p> <p>INCIDENT ILLUMINATION: Light source type X-LED⁸ with white LED; light intensity control using a knob on left side of the frame. LED power: 8W, comparable to a 100W halogen bulb. 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: 110/240Vac, 50/60Hz, 0,45 A; Fusibile: T3.15A 250V Max required power: 13W</p>
Observation Modes	Brightfield, Transmitted polarized light, Incident polarized 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 with centering system, 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). Long working distance, metallographic, planachromatic "strain-free" objectives: -) Planachromatic IOS 5X LWD, N.A. 0,15, W.D. 10,8 mm -) Planachromatic IOS 10X LWD, N.A. 0,3, W.D. 10 mm -) Planachromatic IOS 20X LWD, N.A. 0,45, W.D. 4 mm -) Planachromatic IOS 50X LWD, N.A. 0,55, W.D. 7,9 mm All objectives are treated with an anti-fungus treatment.
Condenser	Swing-out 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.