



Model:  
**B-510POL-I**

Typology:  
**ROUTINE MICROSCOPE**

**Description:**

*Laboratory microscope for routine and research applications.  
Dye-cast frame, with high stability and ergonomy, for transmitted light and incident light observation.*

<b>Illumination</b>	<p><b>Transmitted light:</b> Light source: X-LED<sup>®</sup>; light intensity control using a knob on left side of the frame. LED power: 3.6 W, comparable to a 50 W halogen bulb. Color temperature: 6,300 K LED lifetime: &gt; 65,000 hours.</p> <p><b>Incident light:</b> High-efficiency X-LED<sup>®</sup> with white LED; light intensity control using a knob on left side of the frame. LED power: 8 W, comparable to a 100 W halogen bulb. Color temperature: 6,300 K. LED lifetime: &gt; 50,000 hours.</p> <p>External power supply: Input 100-240 Vac 50-60 Hz / Output 6 Vdc 2.5 A. Max power required: 13 W.</p> <p><b>Transmitted light:</b> Köhler illumination system with Field Diaphragm.</p> <p><b>Incident light:</b> Köhler illumination system with Field and Aperture Diaphragms, centrable.</p>
<b>Observation Modes</b>	Brightfield, Transmitted polarization, Incident polarization.
<b>Focusing</b>	Coaxial coarse and fine focusing mechanism (graduated, 0.002 mm) with upper stop, to prevent the contact between objective and specimen. Flat fine focusing knob on the right side. Adjustable tension of coarse focusing knob.
<b>Stage</b>	Rotatable stage with locking mechanism and centering knobs. Vernier scale with accuracy 0.1 mm. Diameter 145 mm. Specimen slide clamps.
<b>Nosepiece</b>	Quadruple revolving nosepiece, rotation on ball bearings. Centering system for each objective.
<b>Head</b>	Trinocular observation head, inclined 30° and rotatable 360° Diopter adjustment on left eyepiece (+/- 5 diopter adjustment). Interpupillary adjustment 50 - 75 mm Fixed photo port, 50/50 ratio.
<b>Eyepieces</b>	Plan Extra Wide Field, PL 10x/22, High Eyepoint. One of the eyepieces has a cross-hair reticle for optical centering.
<b>Objectives</b>	Infinity corrected optical system IOS. - IOS LWD W-PLAN POL 5x/0.12, W.D. 15.5 mm - IOS LWD W-PLAN POL 10x/0.25, W.D. 10.0 mm - IOS LWD W-PLAN POL 20x/0.40, W.D. 5.8 mm - IOS LWD W-PLAN POL 50x/0.75, W.D. 0.32 mm All objectives have anti-fungus treatment.
<b>Condenser</b>	Swing-out type condenser, sliding-in, N.A. 0.2/0.9, with centering system. With rotating polarizer filter.
<b>Bertrand Lens</b>	Swing-out type with centering mechanism for observation in conoscopy/orthoscopy. Rotatable analyzer from 0° to 90° with graduated scale. Tint plates included: - 1° order red ( $\lambda$ ) - $\lambda/4$ - Quartz wedge
<b>Dimensions</b>	HEIGHT: 530 mm WIDTH: 270 mm DEPTH: 470 mm WEIGHT: 11.5 kg
<b>Accessories</b>	Instruction manual and dust cover included.