

## **B-510POL B-510POL-I**



**OPTIKA B-510** polarized light microscopes include special components exclusive to this class, such as a strain-free objectives, Bertrand lens, filters, condenser, and 360° rotating graduated stage combined with the state-of-the-art, exclusive X-LED illumination system (with transmitted light only or reflected and transmitted).

Polarized light technique enhances the contrast and quality of the image obtained with birefringent materials, ensuring a high sensitivity in qualitative and quantitative studies on a wide range of specimens, especially in crystallography, geology, mineralogy and earth science but also in biology.

## **B-510POL**

Plan wide field eyepieces PL 10x with F.N. of 22 mm, high eyepoint. One with cross-hair reticle for centering

Trinocular port for a camera, with 50/50 light distribution

30° inclined Siedentopf tube, +/- 5 dioptric compensation, on left eyepiece Rubber cups, retractable protections for a higher comfort

## Exclusive, state-of-the-art illumination system



X-LED<sup>3</sup> (3.6 W) as transmitted light

Achieve unmatched colour fidelity and brightness of your specimen with daylight white colour temperature (6,300 K).

Swing-out, centerable Bertrand lens for conoscopy/ othoscopy with graduated  $0-90^{\circ}$  analyzer and tint plates ( $\lambda$ ,  $\lambda/4$ , quartz wedge)

Quadruple nosepiece, reversed, with centering system for each objectives

Sturdy, stable and wide-dimensioned body

Carrying handle

Swing-out condenser, sliding-in, with 0.2/0.9 N.A., centering system and 360° rotating polarizer

Coaxial coarse and fine focusing mechanism (graduated, 0.002 mm)

Strain-free IOS W-PLAN POL (4x, 10x, 20x, 40x) with high contrast and resolution, for top-class performance when used with polarized light

360° rotating stage (Ø 145 mm), lockable and centrable, with Vernier scale, anti-scratch surface

Full Köhler illumination system

High-efficiency **X-LED<sup>3</sup>** as transmitted light





## B-510POL - Technical Datasheet B-510POL-I - Technical Datasheet Brightfield, polarized light (transmitted only) Brightfield, polarized light (transmitted only)

Observation Methods	Brightfield, polarized light (transmitted only)	Brightfield, polarized light (transmitted & reflected)	
Head	Trinocular, 30° inclined, splitting ratio eyepieces/photo tube: 50% - 50%		
Bertrand Lens	Swing-out, centerable for conoscopy/othoscopy with graduated 0-90° analyzer and tint plates ( $\lambda$ , $\lambda$ /4, quartz wedge)		
Eyepieces	Plan wide field, PL 10x/22, high eyepoint, with dioptric adjustment on left eyepiece. One with cross-hair reticle for centering		
Nosepiece	Quadruple, reversed, with centering system for each objective		
Objectives	IOS W-PLAN POL 4x, 10x, 20x, 40x	IOS LWD W-PLAN POL 5x, 10x, 20x, 50x	
Stage	360° rotating stage (Ø145 mm), lockable and centrable, with Vernier scale, anti-scratch surface		
Focusing	Coaxial coarse & fine (200µm/turn), upper stop, adjustable tension		
Transmitted Illumination & Diaphragms	High-efficiency X-LED <sup>3</sup> (3.6 W), manual brightness control. Köhler illumination system with field diaphragm		
Incident Illumination & Diaphragms		High-efficiency white X-LED <sup>®</sup> (8 W), manual brightness control. Köhler illumination system with field and aperture diaphragms, both centrable	
Condenser	N.A. 0.2/0.9, swing-out, sliding-in, with centering system and 0-360° rotating polarizer		

Accessories		B-510POL	B-510POL-I
M-1001	PL10x/22 eyepieces (pair), high eyepoint, with rubber cup (retractable)	•	
M-1003	PL15x/16 eyepieces (pair), high eyepoint		
M-781	PL10x/22 eyepiece, high eyepoint, with micrometric scale (10mm/100um) & rubber cup (retractable)	•	-
M-690	Eyecups (pair)		
M-1131	IOS W-PLAN POL objective 4x/0.10	•	
M-1132	IOS W-PLAN POL objective 10x/0.25	•	
M-1133	IOS W-PLAN POL objective 20x/0.45	•	
M-1134	IOS W-PLAN POL objective 40x/0.65	•	
M-1135	IOS W-PLAN POL objective 60x/0.80		
M-1136	IOS LWD W-PLAN POL objective 5x/0.12		-
M-1137	IOS LWD W-PLAN POL objective 10x/0.25		-
M-1138	IOS LWD W-PLAN POL objective 20x/0.40		-
M-1139	IOS LWD W-PLAN POL objective 50x/0.75		
M-185	Darkfield condenser for dry objectives		
M-977	Green filter, 45 mm diameter		
M-979	Yellow filter, 45 mm diameter		
M-989	Frosted glass filter, 45 mm diameter		
M-113.1	Ring adapter, 30mm (for monocular and binocular microscopes)		
M-173	Photo adapter for APS-C and Full Frame Reflex cameras		
M-620	0.35x focusable C-Mount adapter (biological microscopes)		
M-620.1	0.5x focusable C-Mount adapter (biological microscopes)		
M-620.2	0.65x focusable C-Mount adapter (biological microscopes)		
M-620.3	1x focusable C-Mount adapter (biological microscopes)		
M-699	Universal adapter for M-173		
15104	Cleaning kit		
M-005	Micrometric slide, 26x76mm, with 2 X scales (1mm/100div. for biological / 10mm/100div. for stereo)		
VP-510	IQ/OQ/PQ Manual for B-510 series		
DC-003	TNT dust cover, medium (B-190/290TB & B-380 & B-510) 600(I)x550(h) mm	•	