B-510POL-I

OPTIKA

Rev.2026002



Trinocular polarizing microscope, 500x, IOS LWD W-PLAN POL objectives, incident & transmitted light

Main Body	Type	Upright
	Construction material	Aluminum die-cast
	with trasportation handle	Yes
	Internal prism	Glass prism
	Optical system	Infinity
	Optics with anti-fungus treatment	Yes

Head	Type	Trinocular
	Construction	Siedentopf
	Inclination	30°
	Rotation	360°
	Diopter adjustment	On left tube
	Diopter compensation	±5
	Interpupillary distance (mm)	50-75
	Split ratio	50/50
	Tube inner diameter (mm)	30

Eyepieces	Magnification	10x
	Field number (mm)	22
	High eyepoint (for glass wearers)	Yes
	Planar type	Yes
	Micrometric scale	Yes
	Diameter of micrometer glass (mm)	26
	Rubber cup	Yes
	Retractable protections	Yes

Nosepiece	Positions	Quadruple
	Reversed	Yes
	Bi-directional	Yes
	Rotation on ball bearings	Yes
	Objective thread	RMS
	Centerable	Yes

Objectives	Type	IOS LWD W-PLAN POL
	Correction	Plan Achromatic
	Parfocal distance (mm)	DIN 45
	Optical system	Infinity
	Standard magnifications	5x-10x-20x-50x

Stage	Dimensions (mm)	145
	Material	Anti-scratch painting
	Specimen clips	Yes
	Slide number	1
	Vernier scale accuracy (mm)	0.1
	Type	Round
	Rotation	360°
	Centerable	Yes
Condenser - Single Position	Type	Swing-out / Polarizing
	Numerical aperture (N.A.)	0.2 / 0.9
	Numerical aperture scale	Yes
	Aperture diaphragm	Iris
	Removable	Yes
	Rotatable polarizer	Yes
	Centerable	Yes
	Focusable	By rack and pinion
Focusing System	Type	Coaxial coarse & fine
	Focus modes	Coarse & fine
	Coarse total travel (mm)	25
	Fine graduations	100
	Fine total travel (per single rotation) (mm)	0,2
	Fine resolution (µm)	2
	Upper stop to prevent contact	Yes
	Adjustable tension	Yes
	Flat knob for ergonomy	Yes
Observation Method - Transmitted Light	Brightfield	Yes
	Phase contrast (Positive type)	Optional
	Darkfield	Optional
	Simple polarized light	Yes
	Quantitative polarized light	Yes
Observation Method - Reflected Light	Brightfield	Yes
	Simple polarized light	Yes
	Quantitative polarized light	Yes
Transmitted Illumination	Type	X-LED
	X-LED type	X-LED3
	Light source power (W)	3.6
	Brightness control	Manual
	Kohler illumination	Full
	Color Temperature (K)	5,500-5,700
	Lifetime (hours)	> 65,000
	Max. required power (W)	6
Power Supply for Transmitted Illumination	Type	External
	Microscope connector	Jack, 2.1 mm
	Power plug type	Multi-plug (EU, UK, US)
	Input voltage	100/240 Vac, 50/60 Hz
	Output voltage	5Vdc 2.5 A

Accessories Included	Dust cover	Yes
	Tension adjustment tool	Yes
	Allen wrench	Yes
	User Manual	Digital version (downloadable)
Product Dimensions (footprint)	Width (mm)	250
	Depth (mm)	260
Product Dimensions (overall footprint)	Height (mm)	530
	Width (mm)	260
	Depth (mm)	500
Product Weight	(kg)	11.5
Polarized Light Attachment	Bertrand lens - centerable	Centerable
	Bertrand lens - focusable	Yes
	Analyzer	360° rotatable
	λ tint plate	Yes
	λ/4 tint plate	Yes
	Quartz wedge tint plate	Yes
Incident Polarized Light Attachment	Polarizer	Yes
	Field diaphragm	Centerable
	Aperture diaphragm	Centerable
Incident Polarized Light Source	Light source	X-LED8
	Light Source power (W)	8
	Lifetime (hours)	> 50,000
	Temperature (K)	6,300
	Brightness control	Yes