



*Inverted trinocular metallurgical microscope, IOS*

<b>Observation Method - Incident Light</b>	Brightfield	Yes
	Simple polarized light	Yes
<b>Main Body</b>	Type	Inverted
	Construction material	Aluminum die-cast
<b>Head</b>	Type	Trinocular (Siedentopf)
	Split ratio	100/0 - 50/50
	Inclination	45°
	Interpupillary distance (mm)	50-75
	Dioptric adjustment	On left tube
	Tube inner diameter (mm)	30
<b>Eyepieces</b>	Field number (mm)	22
	Magnification	10x
	Planar type	Yes
	Micrometric scale	As optional
	Diameter of micrometer glass (mm)	26
	High eyepoint (for glass wearers)	Yes
	Rubber cup	Yes
	Retractable protections	Yes
<b>Nosepiece</b>	Positions	Quintuple
	Reversed	Yes
	Bi-directional	Yes
	Rotation on ball bearings	Yes
	Objective thread	RMS
<b>Objectives</b>	Optical system	$\infty$
	Anti-fungus treatment	Yes
	Parfocal distance (mm)	45
	Standard magnifications	50x-500x
	Type	IOS LWD U-PLAN MET
		IOS LWD U-PLAN MET 5x/0.15, W.D. 10.8 mm
		IOS LWD U-PLAN MET 10x/0.30, W.D. 10.0 mm
	IOS LWD U-PLAN MET 20x/0.45, W.D. 4.0 mm	
	IOS LWD U-PLAN MET 50x/0.55, W.D. 7.9 mm	
<b>Stage</b>	Type	Fixed
	Dimensions (mm)	250x160
	Material	Anti-scratch painting
	Metal round insert	Yes
<b>Focusing System</b>	Type	Coaxial coarse & fine
	Fine total travel (per single rotation) (mm)	0.2
	Fine graduations	100
	Fine resolution ( $\mu\text{m}$ )	2
	Upper stop to prevent contact	Yes
	Adjustable tension	Yes

<b>Accessories Included</b>	Dust cover	Yes
	Allen wrench	Yes
	Green filter	Yes
	LBD filter	Yes
	User Manual	Digital version (downloadable)
<b>Additional Information</b>		Mechanical stage dimension 250x230 mm, X-Y translation range 120x80 mm (as optional).
<b>Product Dimensions</b>	Height (mm)	390
	Width (mm)	230
	Depth (mm)	680
<b>Product Weight</b>	(kg)	9
<b>Metallographic Attachment</b>	Polarizer	Yes
	Analyzer, 360° rotatable	Yes
	Field diaphragm	Centerable
	Aperture diaphragm	Centerable
<b>Metallographic Light Source</b>	Light source	Halogen
	Light source power (W)	50
	Lifetime (hours)	> 3,000
	Temperature (K)	3,500
	Brightness control	Yes
<b>Metallographic Power Supply</b>	Type	Internal
	Microscope connector	C13 plug
	Power plug type	Schuko
	Input voltage	110/240 Vac, 50/60 Hz
	Max. power required (W)	62