



*Inverted trinocular metallurgical microscope,
IOS*

Observation Method - Incident Light	Brightfield	Yes
	Simple polarized light	Yes
Main Body	Type	Inverted
	Construction material	Aluminum die-cast
Head	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
Eyepieces	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
Nosepiece	Positions	Quintuple
	Reversed	Yes
	Bi-directional	Yes
	Rotation on ball bearings	Yes
	Objective thread	RMS
Objectives	Optical system	∞
	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	
Stage	Type	Fixed
	Dimensions (mm)	250x160
	Material	Anti-scratch painting
	Metal round insert	Yes
Focusing System	Type	Coaxial coarse & fine
	Fine total travel (per single rotation) (mm)	0.2
	Fine graduations	100
	Fine resolution (μm)	2
	Upper stop to prevent contact	Yes
	Adjustable tension	Yes

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