



Inverted trinocular metallurgical microscope (brightfield / darkfield), IOS

Observation Method - Incident Light	Brightfield	Yes	
	Darkfield	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	
	Fixing screw for eyepieces	Yes	
	Tube inner diameter (mm)	30	
Eyepieces	Field number (mm)	24	
	Magnification	10x	
	Planar type	Yes	
	Micrometric scale	As optional	
	Diameter of micrometer glass (mm)	26	
	High eyepoint (for glass wearers)	Yes	
	Dioptric adjustment	Yes	
	Rubber cup	Yes	
	Retractable protections	Yes	
Nosepiece	Positions	Quintuple	
	Reversed	Yes	
	Bi-directional	Yes	
	Rotation on ball bearings	Yes	
	Objective thread	M26	
	DIC slot	Yes	
	Removable	Yes	
Objectives	Optical system	∞	
	Anti-fungus treatment	Yes	
	Parfocal distance (mm)	45	
	Standard magnifications	50x-1000x	
	Configurable objectives	IOS LWD U-PLAN MET 5x/0.15, W.D. 10.8 mm	
		IOS LWD U-PLAN MET 10x/0.30, W.D. 10 mm	
		IOS LWD U-PLAN MET 20x/0.45, W.D. 4 mm	
		IOS LWD U-PLAN MET 50x/0.55, W.D. 7.9 mm	
		IOS LWD U-PLAN MET 100x/0.8, W.D. 2.1 mm	
		IOS LWD U-PLAN MET BD 5x/0.15, W.D. 9 mm	
		IOS LWD U-PLAN MET BD 10x/0.30, W.D. 9 mm	
		IOS LWD U-PLAN MET BD 20x/0.45, W.D. 3.4 mm	
		IOS LWD U-PLAN MET BD 50x/0.55, W.D. 7.5 mm	
		IOS LWD U-PLAN MET BD 100x/0.80, W.D. 2 mm	

	IOS LWD U-PLAN F MET 5x/0.15, W.D. 19.5 mm
	IOS LWD U-PLAN F MET 10x/0.30, W.D. 10.9 mm
	IOS LWD U-PLAN F MET 20x/0.50, W.D. 3.2 mm
	IOS LWD U-PLAN F MET 50x/0.80, W.D. 1.2 mm
	IOS LWD U-PLAN F MET 100x/0.90, W.D. 1.0 mm
	IOS LWD U-PLAN F MET BD 5x/0.15, W.D. 13.5 mm
	IOS LWD U-PLAN F MET BD 10x/0.30, W.D. 9.0 mm
	IOS LWD U-PLAN F MET BD 20x/0.50, W.D. 2.5 mm
	IOS LWD U-PLAN F MET BD 50x/0.80, W.D. 1.0 mm
	IOS LWD U-PLAN F MET BD 100x/0.90, W.D. 1.0 mm

Stage	Type	Mechanical stage
	Dimensions (mm)	240x250
	Moving mechanism	Rack and pinion
	Moving range (mm)	50x50
	Material	Anti-scratch painting
	Specimen clips	Yes
	Metal round insert	Yes
	X-Y Vernier scale	Yes
	Vernier scale accuracy (mm)	0.1

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
	LBD filter	Yes
	Spare halogen lamp	Yes (2 pieces)
	User Manual	Digital version (downloadable)

Product Dimensions	Height (mm)	400
	Width (mm)	360
	Depth (mm)	750

Product Weight	(kg)	10
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Metallographic Attachment	Polarizer	Yes
	Analyzer, 360° rotatable	Yes
	Darkfield illumination	Yes
	Field diaphragm	Centerable
	Aperture diaphragm	Centerable

Metallographic Light Source	Light source	Halogen
	Watt (W)	100
	Lifetime (hours)	> 3,000
	Temperature (K)	3,500
	Brightness control	Yes

Metallographic Power Supply	Type	External
	Microscope connector	4-pin proprietary
	Power plug type	Schuko
	Input voltage	100/240 Vac, 50/60 Hz
	Max. power required (W)	140
	ECO function	Yes
	LED indicators	Yes