



*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