

Trinocular metallurgical microscope, 500x, IOS W-PLAN MET 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	Optional
	Diameter of micrometer glass (mm)	26
	Rubber cup	Yes
	Retractable protections	Yes

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

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

Stage	Dimensions (mm)	233x147
	Mechanical stage	Rackless
	Material	Anti-scratch painting
	Specimen holder	Yes
	Slide number	2
	Moving range (mm)	78x54
	X-Y movement	Yes
	X-Y Vernier scale	Yes
	Vernier scale accuracy (mm)	0.1
	Type	Double layer
	Right / Left hand	Right
Condenser - Single Position	Type	Swing-out
	Numerical aperture (N.A.)	0.2 / 0.9
	Numerical aperture scale	Yes
	Aperture diaphragm	Iris
	Removable	Yes
	Centerable	Yes
	Focusable	By rack and pinion
Focusing System	Type	Coaxial coarse & fine
	Focus modes	Coarse & fine
	Coarse total travel (mm)	38
	Fine graduations	100
	Fine total travel (per single rotation) (mm)	0,2
	Fine resolution (µm)	2
	Upper stop to prevent contact	Yes
	Maximum sample height (mm)	31
	Adjustable tension	Yes
	Flat knob for ergonomy	Yes
Observation Method - Transmitted Light	Brightfield	Yes
	Phase contrast (Positive type)	Optional
	Darkfield	Optional
	Simple polarized light	Optional
Observation Method - Reflected Light	Brightfield	Yes
	Oblique	Yes
	Simple 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	5 Vdc 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) (E)	250
	Depth (mm) (D)	260
Product Dimensions (overall footprint)	Height (mm) (C)	490
	Width (mm) (B)	260
	Depth (mm) (A)	500
Product Weight	(kg)	12.5
Metallographic Attachment	Polarizer	Yes
	Analyzer, 360° rotatable	Yes
	Oblique illumination	Yes
	Field diaphragm	Centerable
	Aperture diaphragm	Centerable
Metallographic Light Source	Light source	X-LED8
	Light source power (W)	8
	Lifetime (hours)	> 50,000
	Temperature (K)	6,300
	Brightness control	Yes