



*Trinocular metallurgical microscope, 500x,  
IOS W-PLAN MET objectives,  
incident & transmitted light*

<b>Observation Method - Transmitted Light</b>	Brightfield	Yes
	Phase contrast (Positive type)	As optional
	Darkfield	As optional
	Simple polarized light	As optional
<b>Observation Method - Incident Light</b>	Brightfield	Yes
	Oblique	Yes
	Simple polarized light	Yes
<b>Main Body</b>	Type	Upright
	Construction material	Aluminum die-cast
	Transportation handle	Yes
<b>Head</b>	Type	Trinocular (Siedentopf)
	Split ratio	50/50
	Inclination	30°
	360° rotating	Yes
	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	∞
	Anti-fungus treatment	Yes
	Parfocal distance (mm)	45
	Standard magnifications	50x-500x
	Type	IOS W-PLAN MET
	Objectives included	5x/0.12, W.D. 15.5 mm 10x/0.25, W.D. 10 mm 20x/0.40, W.D. 5.8 mm 50x/0.75, W.D. 0.32 mm
<b>Stage</b>	Type	Double layer
	Dimensions (mm)	233x147
	Moving mechanism	Rackless
	Moving range (mm)	78x54
	Material	Anti-scratch painting
	Specimen holder	Yes
	Slide number	2
	X-Y Vernier scale	Yes
Vernier scale accuracy (mm)	0.1	

<b>Condenser - Single Position</b>	Type	Swing-out
	Removable	Yes
	Numerical aperture (N.A.)	0.2 / 0.9
	Numerical aperture scale	Yes
	Diaphragms	Iris
	Centrable	Yes
	Focusable	By rack and pinion

<b>Focusing System</b>	Type	Coaxial coarse & fine
	Coarse total travel (mm)	38
	Fine total travel (per single rotation) (mm)	0.2
	Fine graduations	100
	Fine resolution (µm)	2
	Maximum sample height (mm)	31
	Upper stop to prevent contact	Yes
	Adjustable tension	Yes
	Flat knob for ergonomomy	Yes

<b>Transmitted Illumination</b>	Kohler illumination	Full
	Type	X-LED
	X-LED type	X-LED3
	Light source power (W)	3.6
	Brightness control	Manual
	Lifetime (hours)	> 65,000
	Temperature (K)	6,300
	Max. required power (W)	6

<b>Power Supply for Transmitted Illumination</b>	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	6 Vdc 2.5 A

<b>Accessories Included</b>	Dust cover	Yes
	Tension adjustment tool	Yes
	Allen wrench	Yes
	User Manual	Digital version (downloadable)

<b>Additional Information</b>		
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<b>Product Dimensions</b>	Height (mm)	505
	Width (mm)	270
	Depth (mm)	550

<b>Product Weight</b>	(kg)	12.5
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<b>Metallographic Attachment</b>	Polarizer	Yes
	Analyzer, 360° rotatable	Yes
	Oblique illumination	Yes
	Field diaphragm	Centerable
	Aperture diaphragm	Centerable

<b>Metallographic Light Source</b>	Light source	X-LED8
	Watt (W)	8
	Lifetime (hours)	> 50,000
	Temperature (K)	6,300
	Brightness control	Yes



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