



*Binocular LED fluorescence microscope,  
500x, IOS objectives, blue filterset*

<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>	Fluorescence	Yes
<b>Main Body</b>	Type	Upright
	Construction material	Aluminum die-cast
	Trasportation handle	Yes
<b>Head</b>	Type	Binocular (Siedentopf)
	Inclination	30°
	360° rotating	Yes
	Interpupillary distance (mm)	48-75
	Diopter adjustment	On both tubes
	Fixing screw for eyepieces	Yes
	Tube inner diameter (mm)	23
<b>Eyepieces</b>	Field number (mm)	20
	Magnification	10x
	Pointer	As optional
	Micrometric scale	As optional
	Diameter of micrometer glass (mm)	21
	High eyepoint (for glass wearers)	Yes
	Rubber cup	Yes
<b>Nosepiece</b>	Positions	Quadruple
	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	100x-500x
	Type	IOS
		IOS N-PLAN 10x/0.25, W.D. 5.8 mm
		IOS N-PLAN 20x/0.40, W.D. 5.1 mm
		IOS N-PLAN 40x/0.65, W.D. 0.43 mm
		IOS W-PLAN MET 50x/0.75, W.D. 0.32 mm

<b>Stage</b>	Type	Double layer
	Dimensions (mm)	150x139
	Moving mechanism	Rackless
	Moving range (mm)	75x33
	Material	Anti-scratch painting
	Specimen holder	Yes
	Slide number	1
	X-Y Vernier scale	Yes
	Vernier scale accuracy (mm)	0.1

<b>Condenser - Single Position</b>	Type	Abbe
	Removable	Yes
	Numerical aperture (N.A.)	1.25
	Magnification scale for simplified positioning	Yes
	Diaphragm	Iris
	Centrable	Yes
	Focusable	By rack and pinion

<b>Focusing System</b>	Type	Coaxial coarse & fine
	Focus modes	Coarse & fine
	Coarse total travel (mm)	18
	Fine graduations	100
	Fine total travel (per single rotation) (mm)	0,4
	Fine resolution ( $\mu\text{m}$ )	4
	Upper stop to prevent contact	Yes
	Adjustable tension	Yes

<b>Transmitted Illumination</b>	Kohler illumination	Fixed
	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
	User Manual	Digital version (downloadable)

<b>Additional Information</b>		Mirror for transmitted light (as optional). External rechargeable battery pack (as optional).
<b>Product Dimensions</b>	Height (mm)	440
	Width (mm)	235
	Depth (mm)	340
<b>Product Weight</b>	(kg)	7.5
<b>Fluorescence Attachment</b>	Number of positions	3
	Blue filter set (included)	Excitation: 460 - 495 nm; Dichroic: 505 nm; Emission: 510LP nm
	Filter dimensions	Excitation: 18 mm diam.; Dichroic: 26.5 mm x 19 mm; Emission: 18 mm diam.
	Filter set selection	Manual
<b>Fluorescence Light Source</b>		Blue LED
	Light source power (W)	3.6
	LED wavelength	Blue LED: 465 nm
	Lifetime (hours)	> 65,000
	Brightness control	Yes



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