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Scientific Equipment

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*Trinocular LED fluorescence microscope,  
1000x, IOS N-PLAN 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
	Transportation handle	Yes
<b>Head</b>	Type	Trinocular (Siedentopf)
	Split ratio	50/50
	Inclination	30°
	360° rotating	Yes
	Interpupillary distance (mm)	48-75
	Dioptric adjustment	On left tube
	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	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	40x-1000x
	Type	IOS N-PLAN
		4x/0.10, W.D. 16.8 mm
		10x/0.25, W.D. 5.8 mm
	40x/0.65, W.D. 0.43 mm	
	100x/1.25 (Oil/Water), W.D. 0.13 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	Abbe
	Removable	Yes
	Numerical aperture (N.A.)	1.25
	Magnification scale for simplified positioning	Yes
	Diaphragms	Iris
	Centrable	Yes
	Focusable	By rack and pinion
<b>Focusing System</b>	Type	Coaxial coarse & fine
	Coarse total travel (mm)	25
	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
	Flat knob for ergonomony	Yes
<b>Transmitted Illumination</b>	Kohler illumination	Fixed (full as optional)
	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
	Immersion oil (10ml)	Yes
	Tension adjustment tool	Yes
	Allen wrench	Yes
	User Manual	Digital version (downloadable)
<b>Additional Information</b>		Heating stage (as optional). External rechargeable battery pack (as optional).
<b>Product Dimensions</b>	Height (mm)	480
	Width (mm)	235
	Depth (mm)	405
<b>Product Weight</b>	(kg)	8.3
<b>Fluorescence Attachment</b>	Number of positions	3
	Blue filter set (included)	Excitation: 460 - 490 nm; Dichroic: 505 nm; Emission: 515LP 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>	Light source	Blue LED
	Light source power (W)	3.6
	LED wavelength	Blue LED: 465 nm
	Lifetime (hours)	> 65,000
	Brightness control	Yes