



*Trinocular HBO fluorescence microscope,
400x,
IOS W-PLAN F objectives,
Blue & Green filtersets*

Observation Method - Transmitted Light	Brightfield	Yes
	Phase contrast (Positive type)	As optional
	Darkfield	As optional
	Simple polarized light	As optional
Observation Method - Incident Light	Fluorescence	Yes
Main Body	Type	Upright
	Construction material	Aluminum die-cast
	Trasportation handle	Yes
Head	Type	Trinocular (Siedentopf)
	Split ratio	100/0 - 50/50 - 0/100
	Inclination	30°
	360° rotating	Yes
	Interpupillary distance (mm)	50-75
	Dioptric adjustment	On left tube
	Tube inner diameter (mm)	30
Eyepieces	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
Nosepiece	Positions	Quintuple
	Reversed	Yes
	Bi-directional	Yes
	Rotation on ball bearings	Yes
	Objective thread	RMS
Objectives	Optical system	∞
	Anti-fungus treatment	Yes
	Parfocal distance (mm)	45
	Standard magnifications	40x-400x
	Type	IOS W-PLAN F
	Objectives included	4x/0.13, W.D. 4.7 mm
		10x/0.30, W.D. 4.1 mm
20x/0.50, W.D. 1.45 mm		
40x/0.75, W.D. 0.5 mm		
Stage	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

Condenser - Single Position	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

Focusing System	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 ergonomomy	Yes

Transmitted Illumination	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

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	6 Vdc 2.5 A

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

Additional Information		Two HBO lamps included. Heating stage (as optional). External rechargeable battery pack (as optional).
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Product Dimensions	Height (mm)	490
	Width (mm)	270
	Depth (mm)	550

Product Weight	(kg)	14.2
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Fluorescence Attachment	Number of positions	4
	Blue filter set (included) specs	Excitation: 460 - 490 nm; Dichroic: 505 nm; Emission: 515LP nm
	Green filter set (included) specs	Excitation: 510 - 550 nm; Dichroic: 570 nm; Emission: 575LP nm
	UV filter set (Optional) specs	Excitation: 325 - 375 nm; Dichroic: 415 nm; Emission: 435LP nm
	V filter set (Optional) specs	Excitation: 390 - 420 nm; Dichroic: 440 nm; Emission: 450LP nm
	Filter dimensions	Excitation: 25 mm diam.; Dichroic: 36 mm x 25 mm; Emission: 25 mm diam.
	Filter set selection	Manual
	Shutter	Yes

Fluorescence Light Source	Light source	HBO
	Watt (W)	100
	Lifetime (hours)	300

Fluorescence Power Supply	Type	External
	Power plug type	Schuko
	Input voltage	100/240 Vac, 50/60 Hz
	Max. power required (W)	130
	LED indicators	Yes