



*Trinocular LED fluorescence microscope,  
1000x, IOS W-PLAN F (Semi-Apo)  
objectives*

<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	100/0 - 50/50 - 0/100
	Inclination	30°
	360° rotating	Yes
	Interpupillary distance (mm)	50-75
	Diopter 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	$\infty$
	Anti-fungus treatment	Yes
	Parfocal distance (mm)	45
	Standard magnifications	40x-1000x
	Type	IOS W-PLAN F
		4x/0.13, W.D. 4.7 mm
		10x/0.30, W.D. 4.1 mm
	40x/0.75, W.D. 0.5 mm	
	100x/1.3 (Oil), W.D. 0.08 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
	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)	25
	Fine graduations	100
	Fine total travel (per single rotation) (mm)	0,2
	Fine resolution ( $\mu\text{m}$ )	2
	Upper stop to prevent contact	Yes
	Adjustable tension	Yes
Flat knob for ergonomy	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
	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)	490
	Width (mm)	276
	Depth (mm)	395
<b>Product Weight</b>	(kg)	11,5
<b>Fluorescence Attachment</b>	Number of positions	4
	Filter dimensions	Excitation: 25 mm diam.; Dichroic: 36 mm x 25 mm; Emission: 25 mm diam.
	<b>BLUE</b> LED Cube (Optional)	LED Emission: 460 nm. Excitation: 455 - 495 nm; Dichroic: 500 nm; Emission: 510LP nm
	<b>BLUE BANDPASS</b> LED Cube (Optional)	LED Emission: 460 nm. Excitation: 455 - 495 nm; Dichroic: 500 nm; Emission: 518-542 nm
	<b>GREEN</b> LED Cube (Optional)	LED Emission: 523 nm. Excitation: 510 - 550 nm; Dichroic: 570 nm; Emission: 575LP nm
	<b>GREEN BANDPASS</b> LED Cube (Optional)	LED Emission: 523 nm. Excitation: 510 - 550 nm; Dichroic: 570 nm; Emission: 585-625 nm
	<b>UV</b> LED Cube (Optional)	LED Emission: 365 nm. Excitation: 325 - 375 nm; Dichroic: 415 nm; Emission: 435LP nm
	<b>UV BANDPASS</b> LED Cube (Optional)	LED Emission: 365 nm. Excitation: 340 - 390 nm; Dichroic: 405 nm; Emission: 420-470 nm
	<b>V</b> LED Cube (Optional)	LED Emission: 405 nm. Excitation: 390 - 420 nm; Dichroic: 440 nm; Emission: 450LP nm
	<b>RED1</b> LED Cube (Optional) **	LED Emission: 623 nm. Excitation: 590 - 650 nm; Dichroic: 660 nm; Emission: 665LP nm
	<b>RED2</b> LED Cube (Optional) **	LED Emission: 623 nm. Excitation: 595 - 645 nm; Dichroic: 655 nm; Emission: 665-715 nm

	<b>DEEP RED</b> LED Cube (Optional) **	LED Emission: 660 nm. Excitation: 623 - 678 nm; Dichroic: 685 nm; Emission: 690-750 nm
	<b>FAR RED</b> LED Cube (Optional) **	LED Emission: 740 nm. Excitation: 720 - 760 nm; Dichroic: 770 nm; Emission: 780LP nm
	<b>AMBER</b> LED Cube (Optional)	LED Emission: 590 nm. Excitation: 582 - 603 nm; Dichroic: 610 nm; Emission: 615-645 nm
	Filter set selection	Manual
	LED source insertion	Manual

**\*\* If the use of a camera is needed, please order it by specifying with "AR GLASS" in order to observe above 650nm**

<b>Fluorescence Light Source</b>	Light source	LED Fluorescence Cube
	Light source power (W)	3,5
	LED wavelength	<i>see LED Fluorescence Cube specs</i>
	Lifetime (hours)	> 65,000
	Brightness control	Yes

<b>Fluorescence Power Supply</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
	Max. power required (W) / Output voltage	12 Vdc 5 A