



Inverted trinocular LED fluorescence microscope, IOS U-PLAN F objectives, 6MP camera with 12" monitor

Observation Method - Transmitted Light	Brightfield	Yes
	Phase contrast (Positive type)	As optional
Observation Mathead		
Observation Method - Incident Light	Fluorescence	Yes
Main Body	Туре	Inverted
	Construction material	Aluminum die-cast
	Construction material	
Head	Туре	Trinocular (Siedentopf)
	Split ratio	100/0 - 0/100
	Inclination	45°
	Interpupillary distance (mm)	50-75
	Dioptric adjustement	On left tube
	Tube inner diameter (mm)	30
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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	100x-400x
	Туре	IOS LWD U-PLAN F
		IOS LWD U-PLAN F
		10x/0.30, W.D. 7.11 mm IOS LWD U-PLAN F
		20x/0.45, W.D. 5.91 mm
		IOS LWD U-PLAN F
		40x/0.65, W.D. 1.61 mm

Stage	Туре	Fixed + Attachable mechanical stage
		250x160 (fixed stage)
	Dimensions (mm)	250x290 (with mechanical stage mounted)
	Moving mechanism	Rack and pinion
	Moving range (mm)	120x80
	Material	Anti-scratch painting
	Glass round insert	Yes
	Metal round insert	Yes
	Holder for Petri dish (mm)	54 (Included), 38, 65 (As optional)
	Holder for Terasaki plate	96 well (As optional)
	Holder for 1 slide	Yes
	Holder for 2 slides	As optional
	Holder for Utermöhl chamber	As optional
Condenser - Single	Туре	Abbe
Position	Removable	Yes
	Numerical aperture (N.A.)	0.30
	Diaphragms	Iris
	Long working distance	Yes
	Working distance (for LWD) (mm)	72
	Extendable working distance (for LWD) (mm)	up to 150
Focusing System	Туре	Coaxial coarse & fine
	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
Transmitted	Туре	X-LED
Illumination	X-LED type	X-LED8
	Light source power (W)	8
	Brightness control	Manual
	Lifetime (hours)	> 65,000
	Temperature (K)	6,300
	Max. required power (W)	13
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Power Supply	Туре	External
	Microscope connector	Jack, 2.1 mm
	Power plug type	Schuko
	Input voltage	100/240 Vac, 50/60 Hz
	Output voltage	12 Vdc 7 A
Accessories Included	Dust cover	Yes
	Allen wrench	Yes
	User Manual	Digital version (downloadable)
Additional Information		Metallic interchangeable inserts for slides, Petri
		dishes, Terasaki, multi-Well plates (as optional).
Product Dimensions	Height (mm)	625
Product Dimensions	Width (mm)	365
Product Dimensions		
Product Dimensions Product Weight	Width (mm)	365

Fluorescence	Number of LED Cubes	Up to 4	
Attachment		LED Emission: 460 nm.	
	BLUE LED Cube (Optional)	Excitation: 455 - 495 nm;	
		Dichroic: 500 nm;	
		Emission: 510LP nm	
		LED Emission: 523 nm.	
	GREEN LED Cube (Optional)	Excitation: 510 - 550 nm;	
		Dichroic: 570 nm;	
		Emission: 575LP nm LED Emission: 365 nm.	
		Excitation: 325 - 375 nm;	
	UV LED Cube (Optional)	Dichroic: 415 nm;	
		Emission: 435LP nm	
		LED Emission: 405 nm.	
	V LED Cube (Optional)	Excitation: 390 - 420 nm;	
		Dichroic: 440 nm;	
		Emission: 450LP nm	
		LED Emission: 623 nm.	
	RED1 LED Cube (Optional)	Excitation: 590 - 650 nm;	
		Dichroic: 660 nm;	
		Emission: 665LP nm LED Emission: 623 nm.	
		Excitation: 595 - 645 nm;	
	RED2 LED Cube (Optional)	Dichroic: 655 nm;	
		Emission: 665-715 nm	
		LED Emission: 660 nm.	
	DEEP RED LED Cube (Optional)	Excitation: 623 - 678 nm;	
	DEEP RED LED Cube (Optional)	Dichroic: 685 nm;	
		Emission: 690-750 nm	
		LED Emission: 740 nm.	
	FAR RED LED Cube (Optional)	Excitation: 720 - 760 nm;	
		Dichroic: 770 nm;	
		Emission: 780LP nm LED Emission: 590 nm.	
		Excitation: 582 - 603 nm;	
	AMBER LED Cube (Optional)	Dichroic: 610 nm;	
		Emission: 615-645 nm	
	Contact OPTIKA for other custom LED Fluorescence Cube options		
	Filter set selection	Manual	
	LED source insertion	Manual	
Fluorescence Light	Light source	LED Fluorescence Cube	
Source	Light source power (W)	3.5	
	LED wavelength	see LED Fluorescence Cube specs	
	Lifetime (hours)	> 65,000	
	Brightness control	Yes	
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Camera specifications	PC Camera resolution (MP)	6.3	
	USB Signal output	USB.3.0	
	Sensor Technology	CMOS	
	Rolling Shutter	Yes	
	Frame rate other resolution (fps)	38@1536x1024	
	Dynamic range (dB)	66.8	
	G sensitivity	425mV at 1/30s	
	Dark Signal	0.15mV at 1/30s	
	ADC conversion	8 Bit - 12Bit	
	Color Depth	1, 4, 8, 24 Bit	
	Exposure time	0.1 msec - 15 sec	
	Binning	1x1; 2x2	
	IR filter	Yes	
		380-650 (IR CUT)	
	IR filter range (nm)	· · · · · ·	
	Camera Power	PC USB	
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	Camera Power	PC USB	
	Camera Power C-Mount	PC USB Yes	

Display size	12"
Display resolution	1920x1080
Input ports	HDMI
Calibration slide	Yes
Wireless Mouse	Yes
Wireless Keyboard	Yes
OS	Windows 10 (64Bit)
SW	Optika ProView Image Analisys for fluorescence
Working Temperature	-10°C up to +50°C
Storage Temperature	-20°C up to +60°C
Relative Humidity	30% to 80%
Storage Humidity	10% to 60%
	Display resolution Input ports Calibration slide Wireless Mouse Wireless Keyboard OS SW Working Temperature Storage Temperature Relative Humidity