

Rev. 2025001



Inverted trinocular LED fluorescence microscope, IOS U-PLAN F objectives, 6MP camera with 15.6" 4K monitor

Observation Method -	Brightfield	Yes
Transmitted Light	Phase contrast (Positive type)	As optional
Observation Method - Incident Light	Fluorescence	Yes
Main Body	Type	Inverted
ivialli bouy	Type Construction material	Aluminum die-cast
	Construction material	Alummum die-cast
Head	Туре	Trinocular (Siedentopf)
пеаи	Split ratio	100/0 - 50/50
	Inclination	45°
		50-75
	Interpupillary distance (mm)	On left tube
	Diopter adjustment	
	Tube inner diameter (mm)	30
	Field number (mm)	22
Eyepieces	, , ,	10x
	Magnification Planar type	Yes
	Micrometric scale	
		As optional
	Diameter of micrometer glass (mm)	26 Vac
	High eyepoint (for glass wearers)	Yes
	Rubber cup	Yes
	Retractable protections	Yes
Nasaniasa	Positions	Outlaburgla
Nosepiece		Quintuple
	Reversed	Yes
	Bi-directional	Yes
	Rotation on ball bearings	Yes
	Objective thread	RMS
Ohiostivos	Ontical system	∞
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

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		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
	Dimensions (mm)	250x160 (fixed stage)
	Difficusions (fillin)	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
	Holder for 1 slide	Yes
	Holder for 2 slides	As optional
	Holder for Utermöhl chamber	·
	Holder for Otermoni chamber	As optional
	-	
Condenser - Single	Type	Abbe
Position	Removable	Yes
	Numerical aperture (N.A.)	0.30
	Diaphragm	Iris
	Slider for color filters	Yes
	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
	Focus modes	Coarse & fine
	Fine graduations	100
	Fine total travel (per single rotation) (mm)	0,2
	Fine resolution (µm)	2
	Adjustable tension	Yes
	rajustable telision	163
Transmitted	Туре	X-LED
Illumination		X-LED8
mummation	X-LED type	
	Light source power (W)	8
	Brightness control	Manual
	Lifetime (hours)	> 65,000
	Temperature (K)	6,300
	Max. required power (W)	13
Power Supply for	Туре	External
Transmitted	Microscope connector	Jack, 2.1 mm
Illumination	Power plug type	Multi-plug (EU, UK, US)
	Input voltage	100/240 Vac, 50/60 Hz
	Output voltage	12 Vdc 7 A
Accessories Included	Dust cover	Yes
	Allen wrench	Yes
	LBD filter	Yes
	User Manual	Digital version (downloadable)
	Section 1	2.0.tal relation (wowlinedaddie)
Additional Information		
Additional information		Metallic interchangeable inserts for slides, Petri
		dishes, Terasaki, multi-Well plates (as optional).

Product Dimensions	Height (mm)	495
	Width (mm)	365
	Depth (mm)	540
D 1 114 1 1 1	(II.)	42
Product Weight	(kg)	12
Fluorescence		Excitation: 25 mm diam.;
Attachment	Filter dimensions	Dichroic: 36 mm x 25 mm;
Attachment	Filter difficults	Emission: 25 mm diam.
	Number of LED Cubes	Up to 4
	Number of LED cubes	LED Emission: 460 nm.
		Excitation: 455 - 495 nm;
	BLUE LED Cube (Optional)	Dichroic: 500 nm;
		Emission: 510LP nm
		LED Emission: 460 nm.
		Excitation: 455 - 495 nm;
	BLUE BANDPASS LED Cube (Optional)	Dichroic: 500 nm;
		Emission: 518-542 nm
		LED Emission: 523 nm.
		Excitation: 510 - 550 nm;
	GREEN LED Cube (Optional)	Dichroic: 570 nm;
		Emission: 575LP nm
		LED Emission: 523 nm.
		Excitation: 510 - 550 nm;
	GREEN BANDPASS LED Cube (Optional)	Dichroic: 570 nm;
		Emission: 585-625 nm
		LED Emission: 365 nm.
		Excitation: 325 - 375 nm;
	UV LED Cube (Optional)	Dichroic: 415 nm;
		Emission: 435LP nm
		LED Emission: 365 nm.
	UV BANDPASS LED Cube (Optional)	Excitation: 340 - 390 nm;
		Dichroic: 405 nm;
		Emission: 420-470 nm
		LED Emission: 405 nm.
	V LED Cube (Optional)	Excitation: 390 - 420 nm;
		Dichroic: 440 nm;
		Emission: 450LP nm
	RED1 LED Cube (Optional) **	LED Emission: 623 nm.
		Excitation: 590 - 650 nm;
		Dichroic: 660 nm;
		Emission: 665LP nm
	RED2 LED Cube (Optional) **	LED Emission: 623 nm.
		Excitation: 595 - 645 nm;
		Dichroic: 655 nm;
		Emission: 665-715 nm
	DEEP RED LED Cube (Optional) **	LED Emission: 660 nm.
		Excitation: 623 - 678 nm;
		Dichroic: 685 nm;
	FAR RED LED Cube (Optional) **	Emission: 690-750 nm
		LED Emission: 740 nm.
		Excitation: 720 - 760 nm;
		Dichroic: 770 nm;
		Emission: 780LP nm
	AMBER LED Cube (Optional) **	LED Emission: 590 nm.
		Excitation: 582 - 603 nm;
		Dichroic: 610 nm;
		Emission: 615-645 nm

	** If the use of a camera is needed, please order it	Walladi
	by specifying with "AR GLASS" in order to observe	
	above 650nm	
	above osonin	
Fluorescence Light		LED Fluorescence Cube
Source	Light source power (W)	3,5
Source	LED wavelength	see LED Fluorescence Cube specs
	Lifetime (hours)	> 65,000
	Brightness control	Yes
	Digittless control	165
Camera General	USB output	Yes
specifications	C-Mount	Yes
specifications	Dimensions (mm)	68 x 68 x 46
	Weight (kg)	0.265
	weight (kg)	0.203
Sensor	Camera resolution (n° of pixels: W x H)	3072x2048
Selisui	Color / Monochrome	Color
	Sensor Size	1/1.8"
	Sensor Technology	CMOS
		SONY EXMOR
	Sensor Type	3/2
	Image Format	2.4x2.4
	Pixel Size (mm)	
	Acquisition technology	Rolling shutter
	Signal/Noise Ratio (DB)	41.74 66.8
	Dynamic range (DB)	
	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 IR filter	1x1; 2x2 Yes
	IR filter range (nm)	380-1050 (AR GLASS)
LICD	Compare receivation (MAD)	6.3
USB	Camera resolution (MP)	6.3
	USB standard	USB3.0
	Frame rate other recolution (fps)	30@3072x2048
	Frame rate other resolution (fps)	38@1536x1024
Camana Dawan Cumulu	Connector	LICD
Camera Power Supply	Connector	USB PC USB
	Output voltage	LC 02B
Camera accessories	Calibration slide	Yes
Camera accessories		
	USB cable (1.8m)	Yes
Fusingmusent	Madding Townsonstons	10%
Environment	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%
A	DC CW	PDO///EM
Available Software	PC SW	PROVIEW
	le 10	•
HDMI Monitor	Touch Screen	Yes
	Display size Display resolution	15.6" 3840x2160
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Manual

Manual

Filter set selection

LED source insertion

Contrast ratio	1000:1
Luminous flux (lumen)	350
Power plug type	European
Input voltage	110/240 Vac, 50/60 Hz
Output voltage	5 Vdc 4 A
Dimensions (mm)	356 x 225 x 12
Weight (Kg)	0.8
0 1 0/	

PC	Operating system	Windows 11
	CPU	IntelCore or AMD Ryzen
	Graphic card	Embedded, max resolution 4K
	RAM	Min 8GB
	Power plug type	Schuko
	Storage	SSD min 256GB
	Ports	USB3.0, USB2.0, USB-C, Ethernet