



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

<b>Observation Method</b> -	Brightfield	Yes
Transmitted Light	Phase contrast (Positive type)	As optional
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Observation Method - Incident Light	Fluorescence	Yes
Main Body	Туре	Inverted
	Construction material	Aluminum die-cast
Head	Туре	Trinocular (Siedentopf)
	Split ratio	100/0 - 50/50
	Inclination	45°
	Interpupillary distance (mm)	50-75
	Diopter 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	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
	Dimensions (mm)	250x160 (fixed stage)
		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	As optional
Condenser - Single	Туре	Abbe
Position	Removable	Yes
	Numerical aperture (N.A.)	0.30
	Diaphragm	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
	Focus modes	Coarse & fine
	Fine graduations	100
	Fine total travel (per single rotation) (mm)	0,2
	Fine resolution (μm)	2
	Upper stop to prevent contact	Yes
	Adjustable tension	Yes
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	Туре	X-LED
	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
Power Supply for	Туре	External
Transmitted	Microscope connector	Jack, 2.1 mm
Illumination		Multi-plug (EU, UK, US)
munination	Power plug type	100/240 Vac, 50/60 Hz
	Input voltage Output voltage	12 Vdc 10 A
		12 VUC 10 A

Accessories Included	Dust cover	Yes
	Allen wrench	Yes
	User Manual	Digital version (downloadable)
Additional Information		Matellia interskom zachla incente fan slides. Detri
		Metallic interchangeable inserts for slides, Petri
		dishes, Terasaki, multi-Well plates (as optional).
Product Dimensions	Height (mm)	495
	Width (mm)	365
	Depth (mm)	540
Product Weight	(kg)	12
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Fluorescence		Excitation: 25 mm diam.;
Attachment	Filter dimensions	Dichroic: 36 mm x 25 mm;
		Emission: 25 mm diam.
	Number of LED Cubes	Up to 4
		LED Emission: 460 nm.
	BLUE LED Cube (Optional)	Excitation: 455 - 495 nm;
		Dichroic: 500 nm;
		Emission: 510LP nm
		LED Emission: 460 nm.
	BLUE BANDPASS LED Cube (Optional)	Excitation: 455 - 495 nm;
		Dichroic: 500 nm;
		Emission: 518-542 nm
		LED Emission: 523 nm.
	GREEN LED Cube (Optional)	Excitation: 510 - 550 nm;
		Dichroic: 570 nm;
		Emission: 575LP nm
		LED Emission: 523 nm.
	GREEN BANDPASS LED Cube (Optional)	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
	UV BANDPASS LED Cube (Optional)	LED Emission: 365 nm.
		Excitation: 340 - 390 nm;
		Dichroic: 405 nm;
		Emission: 420-470 nm
		LED Emission: 405 nm.
	<b>V</b> LED Cube (Optional)	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

	LED Emission: 660 nm.
	Excitation: 623 - 678 nm;
DEEP RED LED Cube (Optional)	Dichroic: 685 nm;
	Emission: 690-750 nm
	LED Emission: 740 nm.
FAR DED (Cube (Ontional)	Excitation: 720 - 760 nm;
FAR RED LED Cube (Optional)	Dichroic: 770 nm;
	Emission: 780LP nm
	LED Emission: 590 nm.
AMBER LED Cube (Optional)	Excitation: 582 - 603 nm;
	Dichroic: 610 nm;
	Emission: 615-645 nm
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 General	USB output	Yes
specifications	C-Mount	Yes
	Dimensions (mm)	68 x 68 x 46
	Weight (kg)	0.265
Sensor	Camera resolution (n° of pixels: W x H)	3072x2048
	Color / Monochrome	Color
	Sensor Size	1/1.8"
	Sensor Technology	CMOS
	Sensor Type	SONY EXMOR
	Image Format	3/2
	Pixel Size (mm)	2.4x2.4
	Acquisition technology	Rolling shutter
	Signal/Noise Ratio (DB)	41.74
	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
	IR filter range (nm)	380-1050 (AR GLASS)
USB	Camera resolution (MP)	6.3
	USB standard	USB3.0
	Frame rate full resolution (fps)	30@3072x2048
	Frame rate other resolution (fps)	38@1536x1024
Camera Power Supply	Connector	USB
	Output voltage	PC USB

Camera accessories	Calibration slide	Yes
	USB cable (1.8m)	Yes
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%
<b>Operating System</b>	OS	Windows 10 (64Bit)
Available Software	PC SW	PROVIEW
PC requirements	PC	CPU: Intel Core2 - 2.8GHz or higher
	PC	RAM: 2GB or more
	PC	USB 3.0
HDMI Monitor	Display size	12"
	Display resolution	1920x1080
	Contrast ratio	1000:1
	Power plug type	Built-in
	Input voltage	100/240 Vac, 50/60 Hz
	Input ports	HDMI
	Dimensions (mm)	300x190x20
	Weight (Kg)	0.6
PC STICK	Operating system	Windows 10 (64Bit)
	СРИ	Intel Celeron N4000
	CPU speed	1.1GHz
	Graphic card	Included in CPU
	RAM	8GB
	Power plug type	Jack
	Input voltage	5V dc
	Storage	128GB
	WiFi	802.11 a/b/g/n/ac
	Input ports	USB
	Output ports	HDMI