







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 -	Fluorescence	Yes
Incident Light	ridorescence	res
Main Body	Туре	Inverted
	Construction material	Aluminum die-cast
Head	Туре	Trinocular (Siedentopf)
	Split ratio	100/0 - 0/100
	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
	Type	IOS LWD U-PLAN F
		IOS LWD U-PLAN F



10x/0.30, W.D. 7.11 mm

	1	IOC IMP II BLAN F
		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
Stago	Typo	Fixed + Attachable mechanical stage
Stage	Туре	250x160 (fixed stage)
	Dimensions (mm)	250x290 (with mechanical stage mounted)
	Maying machanism	Rack and pinion
	Moving renge (mm)	120x80
	Moving range (mm) Material	
	Glass round insert	Anti-scratch painting Yes
		Yes
	Metal round insert	
	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
rosition	Numerical aperture (N.A.)	0.30
	Diaphragm	Iris
	Slider for phase contrast	BF, 4x/10x, 20x/40x positions
	Slider for color filters	Yes
	Long working distance	Yes
	Working distance (for LWD) (mm)	72
	Extendable working distance (for LWD) (mm)	
	exteridable working distance (for EWD) (fillin)	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
Transmitted	Type	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
Dower Cumple for	Type	External
Power Supply for Transmitted	Type Microscopa connector	External
	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)
		O. C. 10. 10. (download abic)
Additional Information		Metallic interchangeable inserts for slides Potri
Additional Information		Metallic interchangeable inserts for slides, Petri dishes, Terasaki, multi-Well plates (as optional).

roduct Dimensions	Height (mm)	495
	Width (mm)	365
	Depth (mm)	540
Product Weight	(kg)	12
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.
		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.
		Excitation: 340 - 390 nm;
	UV BANDPASS LED Cube (Optional)	·
		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
		LED Emission: 623 nm.
		Excitation: 590 - 650 nm;
	RED1 LED Cube (Optional) **	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
	DEEP RED LED Cube (Optional) **	LED Emission: 660 nm.
		Excitation: 623 - 678 nm;
		Dichroic: 685 nm;
		Emission: 690-750 nm
	FAR RED LED Cube (Optional) **	LED Emission: 740 nm.
		Excitation: 720 - 760 nm;

Dichroic: 770 nm; Emission: 780LP nm

		Excitation: 582 - 603 nm;	
	AMBER LED Cube (Optional) **	Dichroic: 610 nm;	
		Emission: 615-645 nm	
	Filterrant colonian	STANDARD CONTROL OF THE CONTROL OF T	
	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		
Fluorescence Light		LED Fluorescence Cube	
Source	Light source power (W)	3.5	
	LED wavelength	see LED Fluorescence Cube specs	
	Lifetime (hours)	> 65,000	
	Brightness control	Yes	
		,,,,	
Camera General	USB output	Yes	
specifications	C-Mount	Yes	
Specifications	Dimensions (mm)	68 x 68 x 46	
		0.265	
	Weight (kg)	0.203	
-		0.000	
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)	
	in inter range (iiii)	300 1030 (/ 111 012 103)	
USB	Camera resolution (MP)	6.3	
035	USB standard	USB3.0	
	Frame rate full resolution (fps)	30@3072x2048	
	Frame rate other resolution (fps)	38@1536x1024	
C	C	LICE	
Camera Power Supply		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%	
Available Software	PC SW	PROVIEW	

LED Emission: 590 nm.

HDMI Monitor	Touch Screen	Yes
	Display size	15.6"
	Display resolution	3840x2160
	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
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

