v 2.2 2023



Inverted trinocular LED fluorescence microscope, IOS U-PLAN F objectives

Observation Method -	Brightfield	Yes
Transmitted Light	Phase contrast (Positive type)	As optional
Observation Method -	Elugrassansa	Yes
Incident Light	Fluorescence	res
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	∞
Objectives		Yes
	Anti-fungus treatment	
	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
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
	an required power (vv)	
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
	Output voitage	12 VUL / 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).
		distres, Terasaki, multi-vven 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.
		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.
	UV LED Cube (Optional)	Excitation: 325 - 375 nm;
		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

	LED Emission: 660 nm.		
DEED DED LED Cube (Ontional) **	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;		
PAR RED LED Cube (Optional)	Dichroic: 770 nm;		
	Emission: 780LP nm		
	LED Emission: 590 nm.		
ABADED LED Cube (Outline all) **	Excitation: 582 - 603 nm;		
AMBER LED Cube (Optional) **	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

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