



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

Observation Method -	Brightfield	Yes
Transmitted Light	Phase contrast (Positive type)	As optional
Observation Method - Incident Light	Fluorescence	Yes
Main Body	Туре	Inverted
	Construction material	Aluminum die-cast
	-	T :
Head	Type	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
	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

		40A) 0.03, W.D. 1.01 Hilli
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
	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
	Slider for phase contrast	BF, 4x/10x, 20x/40x positions
	Slider for color filters	Yes
	Long working distance	Yes
		72
	Working distance (for LWD) (mm)	
	Extendable working distance (for LWD) (mm)	up to 150
	-	0
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	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
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 voltage	12 VUC / A
Accessories Included	Dust cover	Yes
	Allen wrench	Yes
	LBD filter	Yes
	User Manual	Digital version (downloadable)
	OSCI Managi	Digital version (downloadable)
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
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.
	DILLE DANIDDASS LED Cube (Ontional)	Excitation: 455 - 495 nm;
	BLUE BANDPASS LED Cube (Optional)	Dichroic: 500 nm;
		Emission: 518-542 nm
		LED Emission: 523 nm.
	GREEN LED Cube (Optional)	Excitation: 510 - 550 nm;
	GREEN LED Cube (Optional)	Dichroic: 570 nm;
		Emission: 575LP nm
		LED Emission: 523 nm.
	GPEEN RANDDASS LED Cube (Ontional)	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;
	OV LED Cube (Optional)	Dichroic: 415 nm;
		Emission: 435LP nm
		LED Emission: 365 nm.
	UV BANDPASS LED Cube (Optional)	Excitation: 340 - 390 nm;
	OV 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.
	RED1 LED Cube (Optional) **	Excitation: 590 - 650 nm;
	(2)	Dichroic: 660 nm;
		Emission: 665LP nm
		LED Emission: 623 nm.
	RED2 LED Cube (Optional) **	Excitation: 595 - 645 nm;
	111111111111111111111111111111111111111	Dichroic: 655 nm;
		Emission: 665-715 nm

DEEP RED LED Cube (Optional) **

FAR RED LED Cube (Optional) **

LED Emission: 660 nm. Excitation: 623 - 678 nm;

Dichroic: 685 nm; 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
	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

