



Trinocular LED fluorescence microscope,
1000x, IOS objectives, modular LED
Fluorescence Cubes

Observation Method - Transmitted Light	Brightfield	Yes
	Phase contrast (Positive type)	As optional
	Darkfield	As optional
	DIC	As optional
	Simple polarized light	As optional
Observation Method - Incident Light	Fluorescence	Yes
Main Body	Type	Upright
	Construction material	Aluminum die-cast
Head	Type	Trinocular (Siedentopf)
	Split ratio	100/0 - 50/50 - 0/100
	Inclination	30°
	360° rotating	Yes
	Interpupillary distance (mm)	50-75
	Dioptric 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	Sextuple
	Reversed	Yes
	Bi-directional	Yes
	Rotation on ball bearings	Yes
	Objective thread	RMS
	DIC slot	Yes
	Motorized	As optional
Objectives	Optical system	∞
	Anti-fungus treatment	Yes
	Parfocal distance (mm)	45
	Standard magnifications	40x-1000x
	Type	IOS W-PLAN / W-PLAN F / U-PLAN F
	Objectives included	Refer to B-1000 Catalog for available options
Stage	Type	Double layer
	Material	Anti-scratch painting
	Specimen holder	Yes
	Slide number	2
		Refer to B-1000 Catalog for available options

Condenser - Single Position	Type	Swing-out
	Removable	Yes
	Numerical aperture (N.A.)	0.2 / 0.9
	Numerical aperture scale	Yes
	Diaphragms	Iris
	Centrable	Yes
	Focusable	By rack and pinion
		<i>Refer to B-1000 Catalog for available options</i>

Focusing System	Type	Coaxial coarse & fine
	Coarse total travel (mm)	17
	Fine total travel (per single rotation) (mm)	0.2
	Fine graduations	100
	Fine resolution (µm)	2
	Upper stop to prevent contact	Yes
	Flat knob for ergonomomy	Yes
	Motorized	As optional

Transmitted Illumination	Kohler illumination	Full
	Type	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 Transmitted Illumination	Type	External
	Microscope connector	Jack, 2.1 mm
	Power plug type	Multi-plug (EU, UK, US)
	Input voltage	100/240 Vac, 50/60 Hz
	Output voltage	6 Vdc 2.5 A
	ECO/AUTO-OFF function	Yes
	LED indicator	Yes

Accessories Included	Dust cover	Yes
	Immersion oil (10ml)	Yes
	Allen wrench	Yes
	User Manual	Yes

Product Dimensions	Height (mm)	515
	Width (mm)	250
	Depth (mm)	520

Product Weight	(kg)	15
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Fluorescence Attachment	Number of LED Cubes	Up to 4
	BLUE LED Cube (Optional)	LED Emission: 460 nm. Excitation: 455 - 495 nm; Dichroic: 500 nm; Emission: 510LP nm
	BLUE BANDPASS LED Cube (Optional)	LED Emission: 460 nm. Excitation: 455 - 495 nm; Dichroic: 500 nm; Emission: 518-542 nm
	GREEN LED Cube (Optional)	LED Emission: 523 nm. Excitation: 510 - 550 nm; Dichroic: 570 nm; Emission: 575LP nm
	GREEN BANDPASS LED Cube (Optional)	LED Emission: 523 nm. Excitation: 510 - 550 nm; Dichroic: 570 nm; Emission: 585-625 nm
	UV 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
	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; Emission: 690-750 nm
	FAR RED LED Cube (Optional)	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
	<i>Contact OPTIKA for other custom LED Fluorescence Cube options</i>	
LED Cube insertion		Manual

Fluorescence Light Source	Light source	LED Fluorescence Cube
	Light source power (W)	3.5
	LED wavelength	<i>see LED Fluorescence Cube specs</i>
	Lifetime (hours)	> 65,000
	Brightness control	Yes

Fluorescence Power Supply	Type	External
	Microscope connector	Jack, 2.1 mm
	Power plug type	Multi-plug (EU, UK, US)
	Input voltage	100/240 Vac, 50/60 Hz
	Output voltage	12 Vdc 1.5 A