B-510LD4

OPTIKA

Rev.2026003



Trinocular LED fluorescence microscope, 1000x, IOS W-PLAN objectives

Main Body	Type	Upright
	Construction material	Aluminum die-cast
	with trasportation handle	Yes
	Internal prism	Glass prism
	Optical system	Infinity
	Optics with anti-fungus treatment	Yes

Head	Type	Trinocular
	Construction	Siedentopf
	Inclination	30°
	Rotation	360°
	Diopter adjustment	On left tube
	Diopter compensation	±5
	Interpupillary distance (mm)	50-75
	Split ratio	100/0 - 50/50 - 0/100
	Tube inner diameter (mm)	30

Eyepieces	Magnification	10x
	Field number (mm)	22
	High eyepoint (for glass wearers)	Yes
	Planar type	Yes
	Micrometric scale	Optional
	Diameter of micrometer glass (mm)	26
	Rubber cup	Yes
	Retractable protections	Yes

Nosepiece	Positions	Quintuple
	Reversed	Yes
	Bi-directional	Yes
	Rotation on ball bearings	Yes
	Objective thread	RMS

Objectives	Type	IOS W-PLAN
	Correction	Plan Achromatic
	Parfocal distance (mm)	DIN 45
	Optical system	Infinity
	Standard magnifications	4x-10x-40x-100x

Stage	Dimensions (mm)	233x147
	Mechanical stage	Rackless
	Material	Anti-scratch painting
	Specimen holder	Yes
	Slide number	2
	Moving range (mm)	78x54
	X-Y movement	Yes
	X-Y Vernier scale	Yes
	Vernier scale accuracy (mm)	0.1
	Type	Double layer
	Right / Left hand	Right
Condenser - Single Position	Type	Swing-out
	Numerical aperture (N.A.)	0.2 / 0.9
	Numerical aperture scale	Yes
	Aperture diaphragm	Iris
	Removable	Yes
	Centerable	Yes
	Focusable	By rack and pinion
Focusing System	Type	Coaxial coarse & fine
	Focus modes	Coarse & fine
	Coarse total travel (mm)	25
	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
	Flat knob for ergonomy	Yes
Observation Method - Transmitted Light	Brightfield	Yes
	Phase contrast (Positive type)	Optional
	Darkfield	Optional
	Simple polarized light	Optional
Observation Method -	Fluorescence	Yes
Transmitted Illumination	Type	X-LED
	X-LED type	X-LED3
	Light source power (W)	3.6
	Brightness control	Manual
	Kohler illumination	Full
	Color Temperature (K)	5,500-5,700
	Lifetime (hours)	> 65,000
	Max. required power (W)	6
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	5 Vdc 2.5 A

Accessories Included	Dust cover	Yes
	Immersion oil (10ml)	Yes
	Tension adjustment tool	Yes
	Allen wrench	Yes
	User Manual	Digital version (downloadable)
Product Dimensions (footprint)	Width (mm) (E)	250
	Depth (mm) (D)	260
Product Dimensions (overall footprint)	Height (mm) (C)	490
	Width (mm) (B)	275
	Depth (mm) (A)	410
Product Weight	(kg)	11,5
Fluorescence Attachment	Number of positions	4
	Number of fluorescence cubes avalable	4
	Filter dimensions	Excitation: 25 mm diam.; Dichroic: 36 mm x 25 mm; Emission: 25 mm diam.
	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
	V LED Cube (Optional)	LED Emission: 405 nm. 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
	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
	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 Source	Light source	LED Fluorescence Cube
	Light source power (W)	3.6
	LED wavelength	see LED Fluorescence Cube specs
	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
	Max. power required (W)	18
	Output voltage	12V 1,5A