v 2.1 2021



Laboratory inverted microscope for research applications.

Dye-cast frame, with high stability and ergonomy, for transmitted light and reflected fluorescence observation.

Observation Method -	Brightfield	Yes
Transmitted Light	Phase contrast (Positive type)	Yes
	DIC	Yes (as optional)
	Simple polarized light	Yes (as optional)
Observation Method - Incident Light	Fluorescence	Yes (as optional)
M.S. D. L.	-	
Main Body	Type	Inverted
	Construction material	Aluminum die-cast
Head	Туре	Trinocular (Siedentopf)
	Culit nation	Binocular / Trino Port: 100 / 0 ; 50 / 50 ; 0 / 100.
	Split ratios	Binocular / Left Side Port: 100 / 0 ; 0 / 100. Binocular / Right Side Port: 100 / 0; 20 / 80.
	Inclination	45°
	Interpupillary distance (mm)	47-78
	Tube inner diameter (mm)	30
	Built-in Bertrand lens	Yes
	Built III Bertrand Ieris	100
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
	Dioptric adjustement	Yes
	Rubber cup	Yes
	<u></u>	1.11
Nosepiece	Positions	Sextuple
	Reversed	Yes
	Bi-directional	Yes
	Rotation on ball bearings	Yes
	Objective thread	25 mm
	DIC slot	Yes
Objectives	Optical system	∞
,	Anti-fungus treatment	Yes
	Parfocal distance (mm)	60
	Standard magnifications	40x-600x
	Configurable objectives	IOS U-PLAN F (SEMI-APO) PH 4x/0.13,
	,	W.D. 16.5 mm, Cover glass -
		IOS U-PLAN F (SEMI-APO) PH 10x/0.3,
		W.D. 7.4 mm, Cover glass 1.2 mm

		IOS U-PLAN F (SEMI-APO) PH 20x/0.45, W.D. 7.5 - 8.8 mm, Cover glass 0 - 2 mm IOS U-PLAN F (SEMI-APO) PH 40x/0.60, W.D. 3.0 - 4.4 mm, Cover glass 0 - 2 mm IOS U-PLAN F (SEMI-APO) PH 60x/0.70, W.D. 1.8 - 2.6 mm, Cover glass 0.1 - 1.3 mm
Magnification Changer	Selectable magnifications	1x, 1.5x
Stage	Туре	Three-layers mechanical stage
	Dimensions (mm)	340x230
	Moving mechanism	Rack and pinion (flexible knob)
	Moving range (mm)	130x85
	Material	Anti-scratch painting
	Holder for Petri dish (mm)	160x110
	Holder for Terasaki plate	96 well
	Holder for 1 slide	Yes
Condenser - Single	Туре	Koehler, with 6 positions
Position	Removable	Yes
	Numerical aperture (N.A.)	0.55
	Diaphragms	Iris
	Phase contrast positions (rings included)	10x PH, 20x PH, 40x PH
	DIC positions (prisms as optional)	DIC1 (10x), DIC2 (20x, 40x, 60x)
	Long working distance	Yes
	Working distance (mm)	26
	Extendable working distance	Yes, it can be inclined out of the optical path
	Centrable	Yes
	Focusable	By rack and pinion
Focusing System	Туре	Coaxial coarse & fine
	Coarse total travel (mm)	10
	Coarse travel (per single rotation) (mm)	2
	Fine travel (per single rotation) (mm)	0.2
	Fine graduations	100
	Fine resolution (µm)	2
	Upper stop to prevent contact	Yes
	Flat knob for ergonomy	Yes
Transmitted	Kohler illumination	Full
Illumination	Light source	X-LED10
	Light source power (W)	10
	Brightness control	Manual
	Lifetime (hours)	> 65,000
	Temperature (K)	6,000
	Max. required power (W)	13
Dower Cumple for	Time	lataraal
Power Supply for Transmitted	Туре	Internal
Illumination	Microscope connector	C13 plug
	Power plug type	Multi-plug (EU, UK, US)
	Input voltage Fuses	100/240 Vac, 50/60 Hz T5A/250V
Accessories	Dust cover	Yes
	Allen wrenches	Yes
	Green filter	Yes
	LBD filter	Yes
	Yellow filter	Yes
	Slider with rotating analyzer	Yes (as optional)
	User Manual	Digital version (downloadable)

Additional Information The incident illumination arm can be inclined 30° ensuring large space for operation and sample exchange. Product Dimensions Width (mm) 390 Depth (mm) 800 See Dimension Diagram below Product Weight Main body weight (kg) 29.5 Fluorescence Attachment (as optional) Blue filter set Excitation: 460 - 495 nm; Dichroic: 505 nm; Emission: 510 LP nm Excitation: 510 - 550 nm; Dichroic: 570 nm; Emission: 576 LP nm Excitation: 390 - 385 nm; Dichroic: 455 nm; Emission: 576 LP nm Love the set Excitation: 390 - 385 nm; Dichroic: 410 nm; Emission: 400 - 410 nm; Dichroic: 410 nm; Emission: 420 LP nm If iter set Excitation: 390 - 385 nm; Dichroic: 410 nm; Emission: 420 LP nm Many other filter sets available upon request. Excitation: 25 mm diam. Filter dimensions Excitation: 25 mm diam. Filter diaphragm Centerable Aperture diaphragm Centerable Aperture diaphragm Centerable Sider with ND filter for HBO lamp 7 yes Orange protection shield Fluorescence Light Source Watt (W) Light source Watt (W) Light source Fluorescence Power Supply (as optional) Fluorescence Power Supply Power plug type Multi-plug (EU, UK, US) Input voltage Max. power required (W) LED indicators Yes			
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Max. power required (W) 130			
			130
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