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 - Transmitted Light	Brightfield	Yes
	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. B. 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 in Bertrana lens	103
Eyepieces	Field number (mm)	22
Бубріобо З	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>	1155
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
0	-	
Condenser - Single	Type	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)
	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	Time	Coaxial coarse & fine
Focusing System	Type Coarse total travel (mm)	
		2
	Coarse travel (per single rotation) (mm)	0.2
	Fine travel (per single rotation) (mm) Fine graduations	100
	Fine resolution (µm)	2
		Yes
	Upper stop to prevent contact Flat knob for ergonomy	Yes
	rial knob for ergonomy	Tes
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
Power Supply for	Туре	Internal
Transmitted Illumination	Microscope connector	C13 plug
	Power plug type	Multi-plug (EU, UK, US)
	Input voltage	100/240 Vac, 50/60 Hz
	Fuses	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	Height (mm)	692
	Width (mm)	390
	Depth (mm)	800
	Э Срин (нини)	See Dimension Diagram below
Product Weight	Main body weight (kg)	29.5
J	The second secon	j=+++
Fluorescence	Number of positions	6
Attachment (as optional)		Excitation: 460 - 495 nm; Dichroic: 505 nm;
(as optional)	Blue filter set	Emission: 510LP nm
	Green filter set	Excitation: 510 - 550 nm; Dichroic: 570 nm;
	Green filter set	Emission: 575LP nm
	V filter set	Excitation: 400 - 410 nm; Dichroic: 455 nm;
		Emission: 460LP nm Excitation: 330 - 385 nm; Dichroic: 410 nm;
	UV filter set	Emission: 420LP nm
		Many other filter sets available upon request.
		Excitation: 25 mm diam.;
	Filter dimensions	Dichroic: 36 mm x 25 mm;
		Emission: 25 mm diam.
	Filter set selection	Manual
	Field diaphragm	Centerable
	Aperture diaphragm	Centerable
	Slider with ND filter for HBO lamp	Yes
	Orange protection shield	Yes
Fluorescence Light Source (as optional)	Light source	HBO Mercury Lamp
	Watt (W)	100 W
	Lifetime (hours)	> 400
Fluorescence Power Supply (as optional)	Туре	External
	Power plug type	Multi-plug (EU, UK, US)
	Input voltage	100/240 Vac, 50/60 Hz
	Max. power required (W)	130
	LED indicators	Yes



