OPTIKA

Rev. 2026002



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 - Reflected Light	Fluorescence	Yes (as optional)
Main Body	Type	Inverted
	Construction material	Aluminum die-cast
Head	Type	Trinocular (Siedentopf)
	Split ratios	Binocular / Trino Port: 100 / 0 ; 50 / 50 ; 0 / 100. 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
Eyepieces	Field number (mm)	25
	Magnification	10x
	Planar type	Yes
	Micrometric scale	As optional
	High eyepoint (for glass wearers)	Yes
	Dioptric adjustement	Yes
	Rubber cup	Yes
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	Type	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 Position	Type	Koehler, with 6 positions
	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	Type	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 Illumination	Kohler illumination	Full
	Light source	X-LED10
	Light source power (W)	10
	Brightness control	Manual
	Lifetime (hours)	> 65,000
	Temperature (K)	4.000
	Max. required power (W)	13

Power Supply for Transmitted Illumination	Type	Internal
	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 transmitted illumination arm can be inclined 30° ensuring large space for operation and sample exchange.

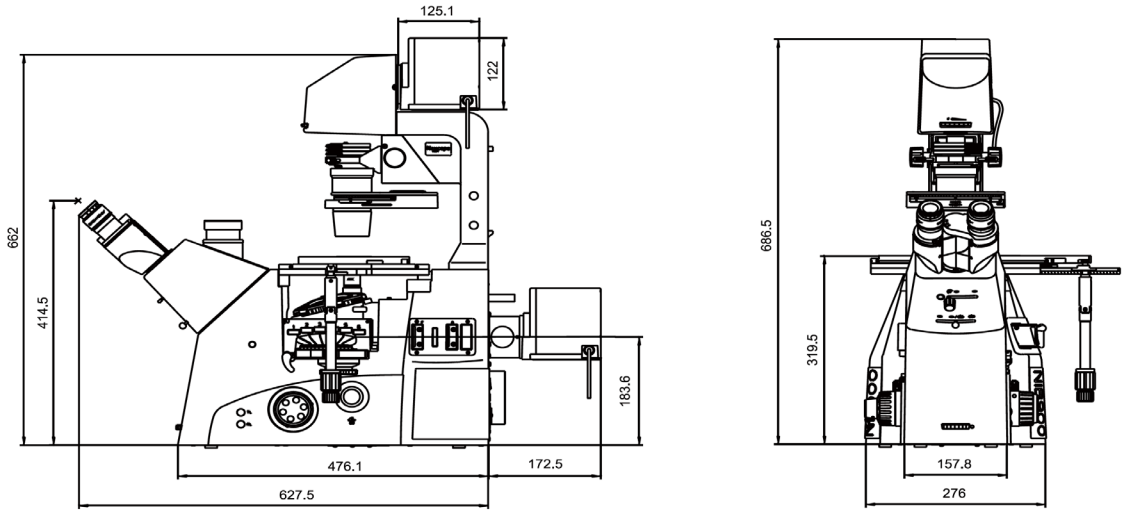
Product Dimensions	Height (mm)	692
	Width (mm)	390
	Depth (mm)	800
		See Dimension Diagram below

Product Weight	Main body weight (kg)	29,5

Fluorescence Attachment (as optional)	Number of positions	6
	Blue filter set	Excitation: 460 - 495 nm; Dichroic: 505 nm; Emission: 510LP nm
	Green filter set	Excitation: 510 - 550 nm; Dichroic: 570 nm; Emission: 575LP nm
	V filter set	Excitation: 400 - 410 nm; Dichroic: 455 nm; Emission: 460LP nm
	UV filter set	Excitation: 330 - 385 nm; Dichroic: 410 nm; Emission: 420LP nm
		Many other filter sets available upon request.
	Filter dimensions	Excitation: 25 mm diam.; 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)	Type	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


125.1
122
662
414.5
183.6
476.1
172.5
627.5
686.5
319.5
157.8
276