Inverted trinocular LED fluorescence microscope, B, G & UV filter set, IOS

Observation Method - Transmitted Light	Brightfield	Yes
	Phase contrast (Positive type)	Yes
	Darkfield	Yes
Observation Method - Incident Light	Fluorescence	Yes
Main Body	Type	Inverted
	Construction material	Aluminum die-cast
Head	Type	Trinocular (Siedentopf)
	Split ratio	100/0 - 0/100
	Inclination	45°
	Interpupillary distance (mm)	50-75
	Fixing screw for eyepieces	Yes
Eyepieces	Field number (mm)	24
	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
	Retractable protections	Yes
Nosepiece	Positions	Quintuple
	Reversed	Yes
	Bi-directional	Yes
	Rotation on ball bearings	Yes
	Objective thread	RMS
Objectives	Optical system	∞
	Anti-fungus treatment	Yes
	Parfocal distance (mm)	45
	Standard magnifications	40x-600x
	Configurable objectives	IOS LWD W-PLAN 4x/0.13, W.D. 10.4 mm
		IOS LWD W-PLAN 40x/0.60, W.D. 3.1 mm
		IOS LWD W-PLAN 60x/0.70, W.D. 1.7 mm
		IOS LWD W-PLAN PH 4x/0.13, W.D. 10.4 mm
		IOS LWD W-PLAN PH 10x/0.25, W.D. 7.3 mm
		IOS LWD W-PLAN PH 20x/0.40, W.D. 6.8 mm
		IOS LWD W-PLAN PH 40x/0.65, W.D. 3 mm
		IOS LWD U-PLAN F 4x/0.13, W.D. 18.52 mm
		IOS LWD U-PLAN F 10x/0.30, W.D. 7.11 mm
		IOS LWD U-PLAN F 20x/0.45, W.D. 5.91 mm
		IOS LWD U-PLAN F 40x/0.65, W.D. 1.61 mm
		IOS LWD U-PLAN F 60x/0.75, W.D. 1.04 mm
		IOS LWD U-PLAN F PH 20x/0.45, W.D. 5.91 mm
		IOS LWD U-PLAN F PH 40x/0.65, W.D. 1.61 mm

Stage	Type	Fixed + Attachable mechanical stage
	Dimensions (mm)	215x250 (fixed stage) 290x250 (with mechanical stage mounted)
	Moving mechanism	Rack and pinion
	Moving range (mm)	120x80
	Material	Anti-scratch painting
	Glass round insert	Yes
	Metal round insert	Yes
	Holder for Petri dish (mm)	38, 54, 65
	Holder for Terasaki plate	96 well
	Holder for 1 slide	Yes
	Holder for 2 slides	As optional
	Holder for Utermöhl chamber	As optional

Condenser - Single Position	Type	Abbe
	Removable	Yes
	Numerical aperture (N.A.)	0.50
	Diaphragms	Iris
	Slider for phase contrast	BF, 4x/10x, 20x/40x positions
	Slider for darkfield (dry)	Yes
	Long working distance	Yes
	Working distance (for LWD) (mm)	28
	Extendable working distance (for LWD) (mm)	up to 220
	Centrable	Yes
	Focusable	By rack and pinion

Focusing System	Type	Coaxial coarse & fine
	Fine total travel (per single rotation) (mm)	0.2
	Fine graduations	100
	Fine resolution (µm)	2
	Upper stop to prevent contact	Yes
	Adjustable tension	Yes

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	Schuko
	Input voltage	100/240 Vac, 50/60 Hz
	Output voltage	12 Vdc 5 A
	ECO function	Yes
	LED indicator	Yes

Accessories Included	Dust cover	Yes
	Allen wrench	Yes
	Centering telescope	Yes
	Green filter	Yes
	LBD filter	Yes
	User Manual	Digital version (downloadable)

Product Dimensions	Height (mm)	545
	Width (mm)	290
	Depth (mm)	720

Product Weight	(kg)	13

Fluorescence Attachment	Number of positions	4
	Blue filter set (included) specs	Excitation: 450 - 490 nm; Dichroic: 495 nm; Emission: 500 - 550 nm
	Green filter set (included) specs	Excitation: 540 - 580 nm; Dichroic: 585 nm; Emission: 608 - 682 nm
	UV filter set (included) specs	Excitation: 340 - 390 nm; Dichroic: 400 nm; Emission: 420LP nm
	Filter dimensions	Excitation: 25 mm diam.; Dichroic: 36 mm x 25 mm; Emission: 25 mm diam.
	Filter set selection	Manual
	LED source insertion	Motorized
	Field diaphragm	Centerable

Fluorescence Light Source	Light source	Blue - Green - UV LEDs Optional LED on request
	Watt (W)	5
	LED wavelength	Blue LED: 470 nm Green LED: 560 nm UV LED: 385 nm
	Lifetime (hours)	> 65,000
	Brightness control	Yes