**OPTIKA** V 3.1 2023



Inverted trinocular LED fluorescence microscope, IOS U-PLAN F objectives, 6MP camera with 12" monitor

<b>Observation Method -</b>	Brightfield	Yes
Transmitted Light	Phase contrast (Positive type)	As optional
<b>Observation Method -</b>	Fluorescence	Yes
Incident Light		
Main Body	Туре	Inverted
	Construction material	Aluminum die-cast
Head	Туре	Trinocular (Siedentopf)
	Split ratio	100/0 - 50/50
	Inclination	45°
	Interpupillary distance (mm)	50-75
	Diopter adjustment	On left tube
	Tube inner diameter (mm)	30
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
	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	100x-400x
	Туре	IOS LWD U-PLAN F

		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
Stage	Туре	Fixed + Attachable mechanical stage
J. J		250x160 (fixed stage)
	Dimensions (mm)	250x290 (with mechanical stage mounted)
	Moving mechanism	Rack and pinion
		120x80
	Moving range (mm)	
	Material	Anti-scratch painting
	Glass round insert	Yes
	Metal round insert	Yes
	Holder for Petri dish (mm)	54 (Included), 38, 65 (As optional)
	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	Туре	Abbe
Position	Removable	Yes
i oontoni	Numerical aperture (N.A.)	0.30
	Diaphragm	Iris
	Long working distance	Yes
	Working distance (for LWD) (mm)	72
	Extendable working distance (for LWD) (mm)	up to 150
Focusing System	Туре	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	Туре	X-LED
Illumination	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
	Max. required power (W)	15
Denver Com I. C.	Tune	Esternal
Power Supply for	Туре	External
Transmitted	Microscope connector	Jack, 2.1 mm
Illumination	Power plug type	Multi-plug (EU, UK, US)
	Input voltage	100/240 Vac, 50/60 Hz
	Output voltage	12 Vdc 10 A
Accessories Included	Dust cover	Yes
	Allen wrench	Yes
	User Manual	Digital version (downloadable)

Additional Information		Metallic interchangeable inserts for slides, Petri dishes, Terasaki, multi-Well plates (as optional).
<b>Product Dimensions</b>	Height (mm)	495
	Width (mm)	365
	Depth (mm)	540
Product Weight	(kg)	12
Fluorescence	Number of LED Cubes	Up to 4
Attachment	BLUE LED Cube (Optional)	LED Emission: 460 nm.
		Excitation: 455 - 495 nm;
		Dichroic: 500 nm;
		Emission: 510LP nm
		LED Emission: 460 nm.
	RILLE RANDRASS LED (who (Optional)	Excitation: 455 - 495 nm;
	BLUE BANDPASS LED Cube (Optional)	Dichroic: 500 nm;
		Emission: 518-542 nm
		LED Emission: 523 nm.
		Excitation: 510 - 550 nm;
	GREEN LED Cube (Optional)	Dichroic: 570 nm;
		Emission: 575LP nm
		LED Emission: 523 nm.
		Excitation: 510 - 550 nm;
	<b>GREEN BANDPASS</b> LED Cube (Optional)	Dichroic: 570 nm;
		Emission: 585-625 nm
		LED Emission: 365 nm.
		Excitation: 325 - 375 nm;
	UV LED Cube (Optional)	Dichroic: 415 nm;
		Emission: 435LP nm
		LED Emission: 365 nm.
		Excitation: 340 - 390 nm;
	UV BANDPASS LED Cube (Optional)	Dichroic: 405 nm;
		Emission: 420-470 nm
		LED Emission: 405 nm.
		Excitation: 390 - 420 nm;
	V LED Cube (Optional)	Dichroic: 440 nm;
		Emission: 450LP nm
		LED Emission: 623 nm.
		Excitation: 590 - 650 nm;
	RED1 LED Cube (Optional)	Dichroic: 660 nm;
		Emission: 665LP nm
		LED Emission: 623 nm.
		Excitation: 595 - 645 nm;
	RED2 LED Cube (Optional)	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
		LED Emission: 740 nm.
	FAR RED LED Cube (Optional)	Excitation: 720 - 760 nm;
		Dichroic: 770 nm;
		Emission: 780LP nm
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		LED Emission: 590 nm.
	AMBER LED Cube (Optional)	Excitation: 582 - 603 nm;
		Dichroic: 610 nm;
		Emission: 615-645 nm
	Filter set selection	Manual
	LED source insertion	Manual
Fluorescence Light	Light source	LED Fluorescence Cube
Source	Light source power (W)	3,5
	LED wavelength	see LED Fluorescence Cube specs
	Lifetime (hours)	> 65,000
	Brightness control	Yes
Camera General	USB output	Yes
specifications	C-Mount	Yes
	Dimensions (mm)	68 x 68 x 46
	Weight (kg)	0.265
Sensor	Camera resolution (n° of pixels: W x H)	3072x2048
	Color / Monochrome	Color
	Sensor Size	1/1.8"
	Sensor Technology	CMOS
	Sensor Type	SONY EXMOR
	Image Format	3/2
	Pixel Size (mm)	2.4x2.4
	Acquisition technology	Rolling shutter
	Signal/Noise Ratio (DB)	41.74
	Dynamic range (DB)	66.8
	G sensitivity	425mV at 1/30s
	Dark Signal	0.15mV at 1/30s
	ADC conversion	8 Bit - 12Bit
	Color Depth	1, 4, 8, 24 Bit
	Exposure time	0.1 msec - 15 sec
	Binning	1x1; 2x2
	IR filter	Yes
	IR filter range (nm)	380-650 (IR CUT)
1100	Concerns needlation (NAD)	
USB	Camera resolution (MP)	6.3
	USB standard	USB3.0
	Frame rate full resolution (fps)	30@3072x2048
	Frame rate other resolution (fps)	38@1536x1024
Camera Power Supply		USB
	Output voltage	PC USB
- ·		N
Camera accessories	Calibration slide	Yes
	USB cable (1.8m)	Yes
Environment	Working Temperature	-10°C up to +50°C
	Storage Temperature	-20°C up to +60°C
	Relative Humidity	30% to 80%
	Storage Humidity	10% to 60%
Operating System	OS	Windows 10 (64Bit)

Available Software	PC SW	PROVIEW
PC requirements	PC	CPU: Intel Core2 - 2.8GHz or higher
	PC	RAM: 2GB or more
	PC	USB 3.0
HDMI Monitor	Display size	12"
	Display resolution	1920x1080
	Contrast ratio	1000:1
	Power plug type	Built-in
	Input voltage	100/240 Vac, 50/60 Hz
	Input ports	HDMI
	Dimensions (mm)	300x190x20
	Weight (Kg)	0.6
PC STICK	Operating system	Windows 10 (64Bit)
	СРИ	Intel Celeron N4000
	CPU speed	1.1GHz
	Graphic card	Included in CPU
	RAM	8GB
	Power plug type	Jack
	Input voltage	5V dc
	Storage	128GB
	WiFi	802.11 a/b/g/n/ac
	Input ports	USB
	Output ports	HDMI

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