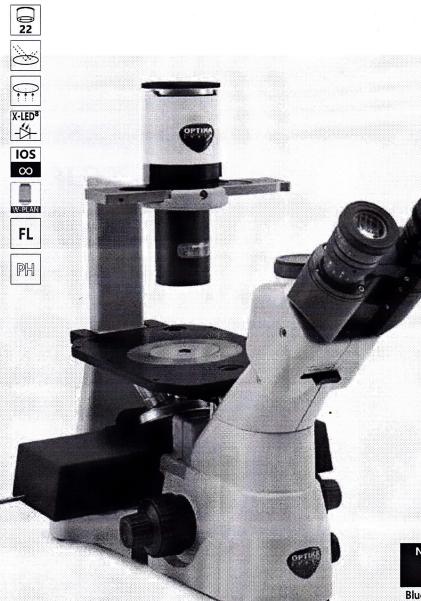
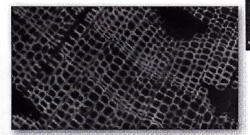


IM-3LD2 - LED Fluorescence Microscope

Routine inverted fluorescence microscope for transmitted brightfield, phase contrast and fluorescence observations with IOS LWD W-PLAN PH objectives.

The LED fluorescence illuminators are combined with blue and green excitation filter set for the visualization of the following fluorochromes: Acridine Yellow, Acridine Orange, Auramine, DiO, DTAF, FITC, GFP, YFP, etc. (blue) plus Rhodamine, Texas Red and TRITC (green). LED fluorescence ensures unparalleled convenience eliminating warm-up/cooldown times and all the inconveniences related lamp replacement and adjustment. Transmitted light through the exclusive **X-LED**⁸ to ensure great-looking, rich and high-quality specimen view.







A new milestone achieved in Fluorescence Microscopy

- » 10% higher light intensity than HBO
- » 35% higher light intensity than Metal-Halide
- » Adjustable light intensity
- » The selection of filtersets automatically involves the switching on of the corresponding LEDs
- » Recommended for routine applications
- » Cost-effective, money saving technology
- » Ready for immediate operation
- » Eliminate warm-up/cool-down times
- » Forget lamp replacement & centering

LED Fluorescence	Cubes	(LED +	Filterset)	included

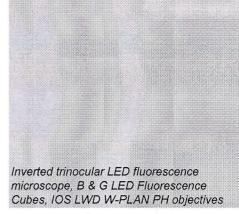
Name	LED emission (nm)	Excita- tion filter (nm)	Dichroic mirror cut-off (nm)	Emission filter (nm)
Blue	460	455 - 495	500	510LP
Green	523	510 - 550	5,70	575LP

Part	Description		
Observation mode:	Brightfield, phase contrast, LED fluorescence.		
Epi-illumination and filter:	High-power LED with brightness control. 3-position filter holder; blue and green filtesets included.		
Head:	Trinocular (2-position 100/0, 0/100), 45° inclined.		
Interpupillary distance:	Adjustable between 50 and 75 mm.		
Dioptric adjustment:	On the left eyepiece tube.		
Eyepieces:	WF10x/22 mm, high eye-point and with rubber cups.		
Nosepiece:	Quintuple revolving nosepiece, rotation on ball bearings.		
Objectives:	IOS LWD W-PLAN PH 10x/0.25 IOS LWD W-PLAN PH 20x/0.40 IOS LWD W-PLAN PH 40x/0.65 All with anti-fungus treatment.		

Part	Description	
Specimen stage:	Fixed stage, 250x160 mm, with glass and metal stage inserts. Mechanical stage as option.	
Focusing:	Coaxial coarse (adjustable tension) and fine focusing mechanism with limit stop to prevent the contact between objective and specimen.	
Condenser:	LWD pre-centered condenser, N.A. 0.30, W.D. 72 mm. With 4x/10x, 20x/40x phase contrast slider and brightfield. Removable to extend the working distance up to 150 mm.	
Transmitted illumination:	X-LED [®] with white 8 W LED (6,300K) with brightness control. With aperture diaphragm. 100-240Vac/12Vdc external power supply.	

v 1.0 2020





		Cubes, IOS LWD W-PLAN PH objectives
Observation Method - Transmitted Light	Brightfield	Yes
	Phase contrast (Positive type)	Yes
Observation Method - Incident Light	Fluorescence	Yes
Main Body	Туре	Inverted
	Construction material	Aluminum die-cast
Head	Type Split ratio	Trinocular (Siedentopf) 100/0 - 0/100
	Inclination	45°
	Interpupillary distance (mm) Dioptric adjustement	50-75 On left tube
-	Tube inner diameter (mm)	30
Eyepieces	Field number (mm)	22 10x
	Magnification Planar type	Yes
Section Section	Micrometric scale	As optional
Market Control	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	60
	Anti-fungus treatment	Yes
	Parfocal distance (mm)	45
	Standard magnifications	100x-400x
	Type	IOS LWD W-PLAN PH
		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. 3.0 mm
Stage	Туре	Fixed
J.	Dimensions (mm)	250x160
MARKET TO SERVICE STREET	Material	Anti-scratch painting
	Glass round insert	
	Metal round insert	Yes (0.000032)
	INICIAI IOANA IIISEIT	100 A A MOVE TO THE

Removable Yes	Canada and Cinada	Time	Abbe
Numerical sperture (N.A.) Daphragms Interest Side for phase contrast BF, 4v/10v, 20v/40x positions Long working distance (for LWD) (mm) 72 Extendable working distan	Condenser - Single	Type	
Daphragems Ins. Slider for phase contrast Long working distance Working distance Working distance (for LWD) (mm) Extendable working distance (for LWD) (mm) Extendable working distance (for LWD) (mm) Fine signatuations Fine resolution (µm) Important to prevent contact Adjustable tension Transmitted Illumination Transmitted Illumination Power Supply for Importance (for LWD) (mm) Power Supply for Importance (for			
Silder for phase contrast SF, Av10x, 20x40x positions Long working distance Yes Working distance (for LWD) (mm) 72 Extendable working distance (for LWD) (mm) 72 The standable working of the standable of the stand			
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Working distance (for LWD) (mm) 72 Extendable working distance (for LWD) (mm) up to 150 Focusing System Type Fine total travel (per single rotation) (mm) 0.2 Fine graduations Fine resolution (µm) 2 Upper stop to prevent contact Yes Adjustable tension Yes Transmitted Itype X-LED X-LED X-LED W X-LED X-LED W	50000	×	·
Extendable working distance (for LWD) (mm) Up 15 150		® 	
Focusing System Type			
Fine total travel (per single rotation) (mm)		Exteriorable Welking distance (i.e. 2002) (iiiii)	
Fine graduations Fine resolution (µm) 2 Upper stop to prevent contact Adjustable tension Transmitted Illumination X_LED type X_LED	Focusing System	Туре	Coaxial coarse & fine
Fine resolution (µm)		Fine total travel (per single rotation) (mm)	0.2
Upper stop to prevent contact Adjustable tension Yes Transmitted Type X-LED Light source power (W) Brightness control Litelitime (hours) A6.000 Temperature (K) A6.300 Manual Litelitime (hours) A6.000 Temperature (K) A6.300 Max. required power (W) B7.300 Max. required power (W) B8.300 Max. required power (W) B8.300 Max. required power (W) B9.300 Max. required power (W) B1.300 Power Supply for Transmitted Microscope connector Accessories Included Accessories Included Duttout voltage Dutpout voltage Digital version (downloadable) Mechanical stage dimension 250x220 mm, XY transation range 120x80 mm (applicable) Mechanical stage dimension 250x220 mm, XY transation range 120x80 mm (applicable) Mechanical stage dimension 250x220 mm, XY transation range 120x80 mm (applicable) Mechanical stage dimension 250x220 mm, XY transation range 120x80 mm (applicable) Mechanical stage dimension 250x220 mm, XY transation range 120x80 mm (applicable) Mechanical stage dimension 250x220 mm, XY transation range 120x80 mm (applicable) Mechanical stage dimension 250x220 mm, XY transation range 120x80 mm (applicable) Mechanical stage dimension 250x220 mm, XY transation range 120x80 mm (applicable) Mechanical stage dimension 250x220 mm (applicable) Mechanical stage dimension 250x220 mm (applicable) Mechanical stage dimension 250x220 mm		Fine graduations	
Adjustable tension	400000	Fine resolution (µm)	
Transmitted Type	4.87		
Light source power (W) S		Adjustable tension	Yes
Light source power (W) S	Terresitted	Time	V LED
Light source power (W) Brightness control Brightness control Lifetime (hours) > 565,000 Temperature (K) Max. required power (W) 13 Power Supply for Transmitted Microscope connector Jack, 2.1 mm Power plug type Input voltage Input voltage Input voltage Input voltage ItED indicator Accessories Included Dust cover Alten wrench Centering telescope Green filter User Manual Additional Information Height (mm) Width (mm) Depth (mm) Product Dimensions Height (mm) Width (mm) Depth (mm) Fluorescence Attachment Fluorescence Attachment Light source Cube specs Light source Cube specs Light source Description Security Security Lightnessence Cube specs Light source Description Security Security Lightnessence Cube specs Light source Description Security Lightnessence Cube specs Light source Description Light source Description Light parents Light processence Cube specs Light source power (W) Light source Description Light source			
Brightness control Lifetime (hours) > 65,000	mummadon		
Lifetime (hours) > 65,000 Temperature (K) 5,000 Max. required power (W) 13 Power Supply for Transmitted Microscope connector Jack, 2.1 mm Power plug type Schuko Input voltage 100/240 Vac, 50/60 Hz Output voltage 12 Vdc 7 A LED indicator Yes Accessories Included Dust cover Yes Allen wrench Yes Allen wrench Yes Green filler Yes User Manual Digital version (downloadable) Additional Information Mechanical stage dimension 250x230 mm, X-Y translation range 120x80 mm (as optional), Metallic interchangeable inserts for slides, Petri dishes, Terasaki, multi-Well plates (as optional), Metallic interchangeable inserts for slides, Petri dishes, Terasaki, multi-Well plates (as optional), Metallic interchangeable inserts for slides, Petri dishes, Terasaki, multi-Well plates (as optional), Metallic interchangeable inserts for slides, Petri dishes, Terasaki, multi-Well plates (as optional), Metallic interchangeable inserts for slides, Petri dishes, Terasaki, multi-Well plates (as optional), Metallic interchangeable inserts for slides, Petri dishes, Terasaki, multi-Well plates (as optional), Metallic interchangeable inserts for slides, Petri dishes, Terasaki, multi-Well plates (as optional), Metallic interchangeable inserts for slides, Petri dishes, Terasaki, multi-Well plates (as optional), Metallic interchangeable inserts for slides, Petri dishes, Terasaki, multi-Well plates (as optional), Metallic interchangeable inserts for slides, Petri dishes, Terasaki, multi-Well plates (as optional), Metallic interchangeable inserts for slides, Petri dishes, Terasaki, multi-Well plates (as optional), Metallic interchangeable inserts for slides, Petri dishes, Terasaki, multi-Well plates (as optional), Metallic interchangeable inserts for slides, Petri dishes, Terasaki, multi-Well plates (as optional), Metallic interchangeable inserts for slides, Petri dishes, Terasaki, multi-Well plates (as optional), Metallic interchangeable inserts for slides, Petri d		(<u>)</u>	
Temperature (K) Max. required power (W) Type External Jack, 2.1 mm Power Supply for Transmitted Illumination Power plug type Input voltage Output voltage LED indicator Accessories Included LED indicator Accessories Included Dust cover Allen wrench Centering telescope Green filter User Manual Additional Information Height (mm) Width (mm) Depth (mm) Product Dimensions Height (mm) Width (mm) Depth (mm) Fluorescence Attachment Fluorescence Light Filter set selection Filter set selection LED source insertion LED Fluorescence Cube Light source processon Schuke Accessories Light source Light source Light source Light source Light source power (W) Joba Schuke Schuke Jack, 2.1 mm Jack, 2.1 mm Jack, 2.1 mm Accharac Jack, 2.1 mm Jack, 2.1 mm Achura Mechanical stage dimension 250x230 mm, X-y translation rappe 120x80 mm (as optional). Mechanical stage dimension 250x230 mm, X-y translation rappe 120x80 mm (as optional). Mechanical stage dimension 250x230 mm, X-y translation rappe 120x80 mm (as optional). Mechanical stage dimension 250x230 mm, X-y translation rappe 120x80 mm (as optional). Mechanical stage dimension 250x230 mm, X-y translation rappe 120x80 mm (as optional). Mechanical stage dimension 250x230 mm, X-y translation rappe 120x80 mm (as optional). Mechanical stage dimension 250x230 mm, X-y translation rappe 120x80 mm (as optional). Mechanical stage dimension 250x230 mm, X-y translation rappe 120x80 mm (as optional). Mechanical stage dimension 250x230 mm, X-y translation rappe 120x80 mm (as optional). Mechanical stage dimension 250x230 mm, X-y translation rappe 120x80 mm (as optional). Mechanical stage dimension 250x230 mm, X-y translation rappe 120x80 mm (as optional). Mechanical stage dimension 250x230 mm, X-y transla		<u> </u>	
Max. required power (W) 13	1966	<u> </u>	
Power Supply for Type		3	
Microscope connector Jack, 2.1 mm		wax. required power (vv)	10
Microscope connector Jack, 2.1 mm	Power Supply for	Type	External
Power plug type Schuko Input voltage 100/240 Vac, 50/60 Hz 100/240 Vac, 50/60 Hz 100/240 Vac, 50/60 Hz 100/240 Vac, 50/60 Hz 12 Vdc 7 A 12 Vdc 7			Jack, 2.1 mm
Input voltage	Illumination		Schuko
Output voltage			100/240 Vac, 50/60 Hz
Accessories Included Dust cover Allen wrench Centering telescope Green filter User Manual Additional Information Additional Information Height (mm) Width (mm) Depth (mm) Product Weight Fluorescence Attachment Blue LED Cube (included) Green LED Cube (included) Green LED Cube (included) Green LED Cube (included) Fluorescence Light Fluorescence Light Fluorescence Light Fluorescence Light Light source Cube specs Lifetime (hours) Yes Yes Yes Yes Yes Yes Yes Yes Yes Y			12 Vdc 7 A
Allen wrench Centering telescope Green filter User Manual Additional Information Additional Information Additional Information Begin to translation the stage dimension 250x230 mm, X-Y translation range 120x80 mm (as optional). Metallic interchangeable inserts for slides, Petri dishes, Terasaki, multi-Well plates (as optional). Product Dimensions Height (mm)		LED indicator	Yes
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Metallic interchangeable inserts for slides, Petri dishes, Terasaki, multi-Well plates (as optional). Product Dimensions Height (mm) Depth (mm) Product Weight (kg) Number of positions IED Emission: 460 nm. Excitation: 455 - 495 nm; Dichroic: 500 nm; Emission: 510LP nm LED Emission: 523 nm. Excitation: 510LP nm LED Emission: 575LP nm Filter set selection LED source insertion Manual Fluorescence Light Source Light source Light source Light source power (W) Lifetime (hours) Metallic interchangeable inserts for slides, Petri dishes, Terasaki, multi-Well plates (as optional). 495 495 495 LED Emission: 460 nm. Excitation: 455 - 495 nm; Dichroic: 570 nm Excitation: 510-P nm LED Emission: 573 nm. Excitation: 570 nm; Emission: 575LP nm Filter set selection Manual LED Fluorescence Cube	Additional Information		
Product Dimensions Height (mm)		•	
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Width (mm) 230 Depth (mm) 540	B-1-1-10:	11-1-1-1/(105
Depth (mm) 540	Product Dimensions		
Product Weight Record Rec			
Number of positions 3	Carrier Consequence	Depth (mm)	540
Attachment Blue LED Cube (included) Blue LED Cube (included) Blue LED Cube (included) Excitation: 455 - 495 nm; Dichroic: 500 nm; Emission: 510LP nm LED Emission: 523 nm. Excitation: 510 - 550 nm; Dichroic: 570 nm; Emission: 575LP nm Filter set selection LED source insertion Manual Fluorescence Light Source Light source Light source power (W) LED wavelength See LED Fluorescence Cube specs Lifetime (hours) LED Emission: 460 nm. Excitation: 455 - 495 nm; Dichroic: 500 nm; Excitation: 510 - 550 nm; Dichroic: 570 nm; Emission: 575LP nm Manual LED Fluorescence Cube See LED Fluorescence Cube	Product Weight	(kg)	10.5
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Emission: 510LP nm LED Emission: 523 nm. Excitation: 510 - 550 nm; Dichroic: 570 nm; Emission: 575LP nm Filter set selection Manual LED source insertion Manual Light source Light source power (W) J.5 LED wavelength Source Lifetime (hours) Emission: 510LP nm Excitation: 510 - 550 nm; Dichroic: 570 nm; Emission: 575LP nm Manual LED Fluorescence Cube See LED Fluorescence Cube	7.12	Blue LED Cube (included)	
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Green LED Cube (included) Dichroic: 570 nm; Emission: 575LP nm Filter set selection LED source insertion Manual LED Fluorescence Cube Light source power (W) LED wavelength See LED Fluorescence Cube specs Lifetime (hours) Dichroic: 570 nm; Emission: 575LP nm Manual LED Fluorescence Cube See LED Fluorescence Cube See LED Fluorescence Cube specs			LED Emission: 523 nm.
Fluorescence Light Source Light source power (W) LED wavelength Light source be Light Source Light source power (W) Light source cube specs Lifetime (hours)		Green LED Cube (included)	
Filter set selection LED source insertion Manual Manual Fluorescence Light Source Light source Light source power (W) LED wavelength See LED Fluorescence Cube specs Lifetime (hours) Annual LED Fluorescence Cube See LED Fluorescence Cube specs See LED Fluorescence Cube specs See LED Fluorescence Cube specs		(
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LED wavelength see LED Fluorescence Cube specs Lifetime (hours) > 65,000		Light source	LED Fluorescence Cube
Lifetime (hours) > 65,000		Light source power (W)	
Brightness control Yes		<u> </u>	
		Brightness control	Yes

