V 1.3 2023



Trinocular LED fluorescence microscope, 1000x, IOS W-PLAN objectives

Observation Method -	Brightfield	Yes
Transmitted Light	Phase contrast (Positive type)	As optional
	Darkfield	As optional
	Simple polarized light	As optional
Observation Method -	Eluproscopica	Yes
Incident Light	Fluorescence	res
Main Body	Туре	Upright
	Construction material	Aluminum die-cast
	Trasportation handle	Yes
Head	Туре	Trinocular (Siedentopf)
	Split ratio	100/0 - 50/50 - 0/100
	Inclination	30°
	360° rotating	Yes
	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

Anti-Ingus treatment Yes Parfocal distance (mm) 45 Standard magnifications 40x-1000x Type 10S W-PLAN Mov. 105 W-PLAN M			
Parfocal distance (mm) 45	Objectives	Optical system	
Standard magnifications 40x-1000x			
Type		` '	
Av.		Standard magnifications	
Toylor Toylor		Туре	IOS W-PLAN
Aby/Lo.S., W.D. 0.54 mm 100v/1.25 (Oil), W.D. 0.13 mm			4x/0.10, W.D. 17.3 mm
Stage Type Double layer Dimensions (mm) Diagnate (mm) Diagnate (mm) Diagnate (mm) Diagnate (mm) Diagnate (mm) Double layer Diagnate (mm) Diagnate (mm) Diagnate (mm) Double layer Diagnate (mm) Double layer Diagnate (mm) Double layer Diagnate (mm) Double layer Double layer Diagnate (mm) Double layer Double layer Diagnate (mm) Double layer Double laer Doubl			10x/0.25, W.D. 10 mm
Stage Type			•
Stage Type Double layer			100x/1.25 (Oil),
Dimensions (mm) Aving mechanism Rackless Moving range (mm) Rackless Moving range (mm) Pass4 Material Anti-scratch painting Specimen holder Slide number 2 X-Y Vernier scale Vernier scale Vernier scale Position Removable Numerical aperture (N.A.) Numerical aperture scale Percusable Pocusable Removable Pocusable Removable Pocusable Removable Removable Pocusable Removable R			W.D. 0.13 mm
Dimensions (mm) Avoing mechanism Moving range (mm) Anti-scratch painting Specimen holder Slide number Slide number Vers Slide number Vers Vernier scale Vernier scale Vers Vernier scale Position Removable Position Removable Postion Focusing System Type Centrable Focusing System Type Coase total travel (mm) Focusing System Type Coase total travel (mm) Fine total travel (per single rotation) (mm) Fine total travel (per single rotation) (mm) Upper stop to prevent contact Adjustable tension Flat knob for ergonomy Yes Vers Type X-LED Type X-LED Type X-LED Type Type Type Type X-LED Type Type Type X-LED System Type Type X-LED System X-LED System Type X-LED System X-LED System Type X-LED System X-LED Syst			
Moving mechanism Rackless	Stage		
Moving range (mm) 78x54			
Material Anti-scratch painting Specimen holder Yes Slide number 2 X-Y Vernier scale Yes Vernier scale Accuracy (mm) 0.1 Condenser - Single Position Removable Yes Diaphragm Iris Centrable Yes Diaphragm Iris Centrable Yes Focusable By rack and pinion Focusing System Type Coaxial coarse & fine Coarse total travel (mm) 25 Fine graduations 100 Fine total travel (per single rotation) (mm) 0,2 Fine resolution (µm) 2 Upper stop to prevent contact Yes Adjustable tension Yes Flat knob for ergonomy Yes Transmitted Illumination Fine total travel (whose) 3.6 Brightness control Manual Lifetime (hours) 6.6,000 Fine prevent plut yee Transmitted Illumination Fine prover plug type Type External Microscope connector Jack, 2.1 mm Power Supply for Transmitted Illumination Fire Power Supply for Transmitted Illumination Fire Power Pug type Multi-plug (EU, UK, US) Input voltage			
Specimen holder Yes			78x54
Slide number 2 Yes Yes Yes Yes Yeriner scale Yes Yeriner scale Yes Yeriner scale Yes Yeriner scale Yes		Material	Anti-scratch painting
X-Y Vernier scale Yes		Specimen holder	Yes
Vernier scale accuracy (mm) 0.1		Slide number	2
Condenser - Single Position Removable Removab		X-Y Vernier scale	Yes
Removable Yes		Vernier scale accuracy (mm)	0.1
Removable Yes			
Numerical aperture (N.A.) Numerical aperture scale Numerical aperture scale Diaphragm Centrable Focusable Focusable Type Focus modes Coarse & fine Focus modes Coarse total travel (mm) Fine graduations Fine total travel (per single rotation) (mm) Upper stop to prevent contact Adjustable tension Flat knob for ergonomy Flat knob for ergonomy Type X-LED X-LED type X-LED type X-LED type X-LED Serightness control Lifetime (hours) Temperature (K) Agivar Deput type Temperature (K) Agivar Deput type Manual Lifetime (hours) Type Sesono Flat knob for exponent (W) Agivar Deput type Agivar Deput type Focusing System Yes Focusing System Type X-LED type X-	Condenser - Single	Туре	Swing-out
Numerical aperture scale Diaphragm Iris Centrable Focusable By rack and pinion Type Focus modes Coarse & fine Focus modes Coarse total travel (mm) Fine graduations Fine total travel (per single rotation) (mm) Fine total travel (per single rotation) (mm) Upper stop to prevent contact Adjustable tension Flat knob for ergonomy Fue Transmitted Illumination Type X-LED X-LED type Light source power (W) Brightness control Lifetime (hours) Temperature (K) Max. required power (W) Fower Supply for Transmitted Illumination Fue Four Supply for Transmitted Illumination Type External Full Full Full S-65,000 Full Full Full Full Full Full Full F	Position	Removable	Yes
Diaphragm Centrable Focusing System Focusing System Type Focus modes Coarse & fine Focus modes Coarse total travel (mm) Fine graduations Fine total travel (per single rotation) (mm) Fine resolution (μm) Cupper stop to prevent contact Adjustable tension Flat knob for ergonomy Flat knob for ergonomy Full Type X-LED X-LED X-LED type Light source power (W) Brightness control Lifetime (hours) Temperature (K) Max. required power (W) Fower Supply for Transmitted Illumination Full Full Full Full Full Full Full Ful		Numerical aperture (N.A.)	0.2 / 0.9
Centrable Focusable By rack and pinion		Numerical aperture scale	Yes
Focusing System Type Focus modes Coarse total travel (mm) Fine graduations Fine total travel (per single rotation) (mm) Coarse Flat knob for ergonomy Transmitted Illumination Fine type Light source power (W) Brightness control Lifetime (hours) Temperature (K) Max. required power (W) Power Supply for Transmitted Illumination Focusing System Type Coaxial coarse & fine Coaxial coarse		Diaphragm	Iris
Type		Centrable	Yes
Focus modes Coarse total travel (mm) Fine graduations Fine total travel (per single rotation) (mm) Fine total travel (per single rotation) (mm) Fine resolution (µm) Upper stop to prevent contact Adjustable tension Flat knob for ergonomy Yes Transmitted Illumination Kohler illumination Full Type X-LED X-LED X-LED X-LED3 Light source power (W) Brightness control Manual Lifetime (hours) Fobjoid Max. required power (W) Fower Supply for Transmitted Illumination Type External Fexternal Fexternal Fower Power plug type Input voltage Input voltage Input voltage Input voltage Input voltage Coarse & fine Coarse fine Coarse & fine Coarse & fine Coarse & fine Coarse fine Coars		Focusable	By rack and pinion
Focus modes Coarse total travel (mm) Fine graduations Fine total travel (per single rotation) (mm) Fine total travel (per single rotation) (mm) Fine resolution (µm) Upper stop to prevent contact Adjustable tension Flat knob for ergonomy Yes Transmitted Illumination Kohler illumination Full Type X-LED X-LED X-LED X-LED3 Light source power (W) Brightness control Manual Lifetime (hours) Fobjoid Max. required power (W) Fower Supply for Transmitted Illumination Type External Fexternal Fexternal Fower Power plug type Input voltage Input voltage Input voltage Input voltage Input voltage Coarse & fine Coarse fine Coarse & fine Coarse & fine Coarse & fine Coarse fine Coars			
Coarse total travel (mm) 25 Fine graduations 100 Fine total travel (per single rotation) (mm) 0,2 Fine resolution (µm) 2 Upper stop to prevent contact Yes Adjustable tension Yes Flat knob for ergonomy Yes Transmitted Illumination Full Type X-LED X-LED type X-LED X-LED type X-LED3 Light source power (W) 3.6 Brightness control Manual Lifetime (hours) > 65,000 Temperature (K) 6,300 Max. required power (W) 6 Power Supply for Transmitted Illumination Type External Microscope connector Jack, 2.1 mm Power plug type Multi-plug (EU, UK, US) Input voltage 100/240 Vac, 50/60 Hz	Focusing System		
Fine graduations Fine total travel (per single rotation) (mm) Fine resolution (µm) Upper stop to prevent contact Adjustable tension Flat knob for ergonomy Yes Transmitted Illumination Type X-LED		Focus modes	
Fine total travel (per single rotation) (mm) Fine resolution (µm) Upper stop to prevent contact Adjustable tension Flat knob for ergonomy Yes Transmitted Illumination Kohler illumination Full Type X-LED X-LED type Light source power (W) Brightness control Lifetime (hours) Temperature (K) Max. required power (W) Fower Supply for Transmitted Illumination Fine resolution (µm) Fus Full Manual Lifetime (hours) S-65,000 Femperature (K) G,300 Max. required power (W) Fine resolution (µm) 2 Ves Full F		Coarse total travel (mm)	25
Fine resolution (μm) Upper stop to prevent contact Adjustable tension Flat knob for ergonomy Yes Flat knob for ergonomy Yes Transmitted Illumination Kohler illumination Type X-LED X-LED X-LED X-LED type Light source power (W) Brightness control Lifetime (hours) Temperature (K) Manual Lifetime (hours) Fo,300 Max. required power (W) Fower Supply for Transmitted Illumination Type External Microscope connector Jack, 2.1 mm Multi-plug (EU, UK, US) Input voltage Modification Mess Mess Microscope (M) Multi-plug (EU, UK, US) Input voltage 100/240 Vac, 50/60 Hz			100
Upper stop to prevent contact Adjustable tension Flat knob for ergonomy Yes Transmitted Illumination Type X-LED X-LED type Light source power (W) Brightness control Lifetime (hours) Temperature (K) Max. required power (W) Type Power Supply for Transmitted Illumination Type External Microscope connector Jack, 2.1 mm Multi-plug (EU, UK, US) Input voltage Illumination Yes Full Full Manual Full A'-LED X-LED X-LED3 3.6 Brightness control Manual Alietime (hours) Again Fower Supply for Type External Microscope connector Jack, 2.1 mm Multi-plug (EU, UK, US) Input voltage 100/240 Vac, 50/60 Hz		Fine total travel (per single rotation) (mm)	0,2
Adjustable tension Flat knob for ergonomy Transmitted Illumination Type X-LED type Light source power (W) Brightness control Lifetime (hours) Temperature (K) Max. required power (W) Type Setupply for Transmitted Illumination Type External Microscope connector Jack, 2.1 mm Power plug type Input voltage Illumination Possible tension Yes Yes Yes Yes Full A'-LED X-LED X-LED Manual Lifeting Manual External Jethory Aignory Adjustable tension Yes External Manual External Microscope connector Jack, 2.1 mm Multi-plug (EU, UK, US) Input voltage 100/240 Vac, 50/60 Hz		Fine resolution (µm)	2
Flat knob for ergonomy Yes Transmitted Illumination Illumination Kohler illumination Type X-LED X-LED X-LED type Light source power (W) 3.6 Brightness control Lifetime (hours) Temperature (K) Max. required power (W) Flat knob for ergonomy Full X-LED X-LED Manual Light source power (W) Manual Lifetime (hours) Fost, 000 Full X-LED X-LED Manual Lifetime (hours) Fost, 000 External Microscope connector Jack, 2.1 mm Multi-plug (EU, UK, US) Input voltage 100/240 Vac, 50/60 Hz		Upper stop to prevent contact	Yes
Transmitted Illumination Kohler illumination		Adjustable tension	Yes
Type		Flat knob for ergonomy	Yes
Type			
X-LED type Light source power (W) 3.6 Brightness control Lifetime (hours) Temperature (K) Max. required power (W) 6 Power Supply for Transmitted Illumination Transmitted Power plug type Input voltage X-LED3 X-LED3 X-LED3 X-LED3 X-LED3 X-LED3 X-LED3 X-LED3 As A Supple Supple Settles S		Kohler illumination	
Light source power (W) Brightness control Lifetime (hours) Temperature (K) Max. required power (W) Fower Supply for Transmitted Illumination Transmitted Illumination Light source power (W) Manual School Again Aga	Illumination	Туре	X-LED
Brightness control Lifetime (hours) Temperature (K) Max. required power (W) Fower Supply for Transmitted Illumination Transmitted Illumination Manual Addition Fower Septime (hours) Addition Manual Addition Fower Septime (hours) Addition Fower Supply for Addition Manual Addition Fower Supply for Addition Manual Fower Septime Addition Manual Fower Supply for Addition Multi-plug (EU, UK, US) Input voltage Multi-plug (EU, UK, US) Input voltage Manual Manua		X-LED type	
Lifetime (hours) > 65,000 Temperature (K) 6,300 Max. required power (W) 6 Power Supply for Type External Microscope connector Jack, 2.1 mm Power plug type Multi-plug (EU, UK, US) Input voltage 100/240 Vac, 50/60 Hz		Light source power (W)	3.6
Temperature (K) Max. required power (W) Fower Supply for Transmitted Illumination Transmitted Illumination Power plug type Input voltage Microscope connector Input voltage Microscope connector Jack, 2.1 mm Multi-plug (EU, UK, US) Input voltage 100/240 Vac, 50/60 Hz		Brightness control	Manual
Power Supply for Type External Microscope connector Jack, 2.1 mm Power plug type Multi-plug (EU, UK, US) Input voltage 100/240 Vac, 50/60 Hz		Lifetime (hours)	> 65,000
Power Supply for Type External Microscope connector Jack, 2.1 mm Power plug type Multi-plug (EU, UK, US) Input voltage 100/240 Vac, 50/60 Hz		Temperature (K)	6,300
Transmitted Microscope connector Jack, 2.1 mm Power plug type Multi-plug (EU, UK, US) Input voltage 100/240 Vac, 50/60 Hz		Max. required power (W)	6
Transmitted Microscope connector Jack, 2.1 mm Power plug type Multi-plug (EU, UK, US) Input voltage 100/240 Vac, 50/60 Hz			
Power plug type Multi-plug (EU, UK, US) Input voltage 100/240 Vac, 50/60 Hz	Power Supply for	Туре	External
Input voltage 100/240 Vac, 50/60 Hz	Transmitted	Microscope connector	Jack, 2.1 mm
	Illumination	Power plug type	Multi-plug (EU, UK, US)
Output voltage 6 Vdc 2 5 A		Input voltage	100/240 Vac, 50/60 Hz
output voltage ovac 2.3 //		Output voltage	6 Vdc 2.5 A

Accessories Included	Dust cover	Yes
	Immersion oil (10ml)	Yes
	Tension adjustment tool	Yes
	Allen wrench	Yes
	User Manual	Digital version (downloadable)
Additional Information		Heating stage (as optional).
		External rechargeable battery pack (as optional).
		External rechargeable battery pack (as optionar).
Product Dimensions	Height (mm)	490
	Width (mm)	276
	Depth (mm)	395
	[a] x	1
Product Weight	(kg)	11,5
	[
Fluorescence	Number of positions	4
Attachment	Ethan Barratan	Excitation: 25 mm diam.;
	Filter dimensions	Dichroic: 36 mm x 25 mm; Emission: 25 mm diam.
		LED Emission: 460 nm.
	BLUE LED Cube (Optional)	Excitation: 455 - 495 nm; Dichroic: 500 nm;
		Emission: 510LP nm
		LED Emission: 460 nm.
		Excitation: 455 - 495 nm;
	BLUE BANDPASS LED Cube (Optional)	Dichroic: 500 nm;
		Emission: 518-542 nm
		LED Emission: 523 nm.
	GREEN LED Cube (Optional)	Excitation: 510 - 550 nm;
		Dichroic: 570 nm;
		Emission: 575LP nm
		LED Emission: 523 nm.
		Excitation: 510 - 550 nm;
	GREEN BANDPASS LED Cube (Optional)	Dichroic: 570 nm;
		Emission: 585-625 nm
	UV LED Cube (Optional)	LED Emission: 365 nm.
		Excitation: 325 - 375 nm;
		Dichroic: 415 nm;
		Emission: 435LP nm
	UV BANDPASS LED Cube (Optional)	LED Emission: 365 nm.
		Excitation: 340 - 390 nm;
		Dichroic: 405 nm;
		Emission: 420-470 nm
	V LED Cube (Optional)	LED Emission: 405 nm.
		Excitation: 390 - 420 nm;
		Dichroic: 440 nm;
		Emission: 450LP nm
	RED1 LED Cube (Optional) **	LED Emission: 623 nm.
		Excitation: 590 - 650 nm;
		Dichroic: 660 nm;
		Emission: 665LP nm
	RED2 LED Cube (Optional) **	LED Emission: 623 nm.
		Excitation: 595 - 645 nm;
		Dichroic: 655 nm;
		Emission: 665-715 nm

	LED Emission: 660 nm.
DEED BED LED Cube (Ontional) **	Excitation: 623 - 678 nm;
DEEP RED LED Cube (Optional) **	Dichroic: 685 nm;
	Emission: 690-750 nm
	LED Emission: 740 nm.
FAR RED LED Cube (Optional) **	Excitation: 720 - 760 nm;
PAR RED LED Cube (Optional)	Dichroic: 770 nm;
	Emission: 780LP nm
	LED Emission: 590 nm.
ANADER LED C. L. (O. 11	Excitation: 582 - 603 nm;
AMBER LED Cube (Optional)	Dichroic: 610 nm;
	Emission: 615-645 nm
Filter set selection	Manual
LED source insertion	Manual

^{**} If the use of a camera is needed, please order it by specifying with "AR GLASS" in order to observe above 650nm

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
Fluorescence Power	Туре	External
Supply	Microscope connector	Jack, 2.1 mm
	Power plug type	Multi-plug (EU, UK, US)
	Input voltage	100/240 Vac, 50/60 Hz
	Max. power required (W) / Output voltage	12 Vdc 5 A