



Binocular LED fluorescence microscope, 500x, IOS objectives, blue filterset

Observation Method - Transmitted Light	Brightfield	Yes
	Phase contrast (Positive type)	As optional
	Darkfield	As optional
	Simple polarized light	As optional
Observation Method - Incident Light	Fluorescence	Yes
Main Body	Туре	Upright
	Construction material	Aluminum die-cast
	Trasportation handle	Yes
	[	
Head	Туре	Binocular (Siedentopf)
	Inclination	30°
	360° rotating	Yes
	Interpupillary distance (mm)	48-75
	Diopter adjustment	On both tubes
	Fixing screw for eyepieces	Yes
	Tube inner diameter (mm)	23
	Γ	
Eyepieces	Field number (mm)	20
	Magnification	10x
	Pointer	As optional
	Micrometric scale	As optional
	Diameter of micrometer glass (mm)	21
	High eyepoint (for glass wearers)	Yes
	Rubber cup	Yes
Nosepiece	Positions	Quadruple
	Reversed	Yes
	Bi-directional	Yes
	Rotation on ball bearings	Yes
	Objective thread	RMS

Anti-fungus treatment   Yes     Parfocal distance (mm)   45     Standard magnifications   100x-500x     Type   IOS     IOS N-PLAN   20x/0.40, W.D. 5.8 mm     IOS N-PLAN   20x/0.40, W.D. 5.1 mm     IOS N-PLAN   20x/0.40, W.D. 5.1 mm     IOS N-PLAN   20x/0.43, W.D. 5.1 mm     IOS N-PLAN   40x/0.65, W.D. 0.43 mm     IOS W-PLAN   40x/0.65, W.D. 0.43 mm     IOS W-PLAN   40x/0.63, W.D. 0.43 mm     IOS W-PLAN   40x/0.65, W.D. 0.43 mm     Moving mechanism   Rackless     Moving range (mm)   75x33     Material   Anti-scratch painting     Specimen holder   Yes     Slide number   1     X-Y Vernier scale   Yes     Vernier scale accuracy (mm)   0.1     Condenser - Single   Type     Removable   Yes     Numerical aperture (N.A.)   1.25     Mag	Objectives	Optical system	∞
Parfocal distance (mm) 45   Standard magnifications 100x-500x   Type IOS   IOS N-PLAN 10x/0.25, W.D. 0.5 mm   IOS N-PLAN 20x/0.40, W.D. 5.1 mm   IOS N-PLAN 20x/0.40, W.D. 5.1 mm   IOS N-PLAN 20x/0.40, W.D. 5.1 mm   IOS N-PLAN 20x/0.40, W.D. 0.43 mm   IOS W-PLAN MET 50x/0.75, W.D. 0.32 mm   Stage Type Double layer   Dimensions (mm) 150x139   Moving range (mm) 75x33   Material Anti-scratch painting   Specimen holder Yes   Side number 1   X-Y Vernier scale Yes   Vernier scale accuracy (mm) 0.1   Condenser - Single   Position Type   Abbe Removable   Numerical aperture (N.A.) 1.25   Magnification scale for simplified positioning Yes   Diaphragm Iris   Centrable Yes   Diaphragm Iris   Centrable Se   Focusing System Type   Type Coaxial coarse & fine   Coarse total travel (per single rotation) (mm) 0,4   Fine graduations 100   Fine resolution	Objectives		
Standard magnifications   100x-500x     Type   IOS     Type   IOS N-PLAN     100x 0.25, W.D. 5.8 mm   IOS N-PLAN     20x/0.40, W.D. 5.1 mm   IOS N-PLAN     100x 0.40, W.D. 5.1 mm   IOS N-PLAN     40x/0.65, W.D. 0.43 mm   IOS N-PLAN     40x/0.65, W.D. 0.43 mm   IOS N-PLAN     40x/0.55, W.D. 0.43 mm   IOS N-PLAN     40x/0.55, W.D. 0.32 mm   IDM INFORMATION     Stage   Type   Double layer     Dimensions (mm)   150x139     Moving range (mn)   75x33     Material   Anti-scratch painting     Specimen holder   Yes     Slide number   1     X-Y Vernier scale   Yes     Vernier scale accuracy (mm)   0.1     Condenser - Single   Type     Position   Type     Magnification scale for simplified positioning   Yes     Numerical aperture (N.A.)   1.25			
Type   IOS     IOS N-PLAN   IOS N-PLAN     IOS N-PLAN   IOS N-PLAN     IOS N-PLAN   20x/0.40, VU. D. 5.8 mm     IOS N-PLAN   20x/0.40, VU. D. 5.1 mm     IOS N-PLAN   20x/0.40, VU. D. 5.1 mm     IOS N-PLAN   40x/0.55, W.D. 0.43 mm     IOS W-PLAN INET   50x/0.75, W.D. 0.32 mm     Stage   Type   Double layer     Dimensions (mm)   150x139     Moving rechanism   Rackless     Moving range (mm)   75x33     Material   Anti-scratch painting     Specimen holder   Yes     Silde number   1     X-Y Vernier scale   Yes     Vernier scale accuracy (mm)   0.1     Vernier scale accuracy (mm)   0.1     Vernier scale accuracy (mm)   1.25     Magnification scale for simplified positioning   Yes     Numerical aperture (N.A.)   1.25     Magnification scale for simplified positioning   Yes     Diaphragm   Iris     Centrable   Yes     Possibio   Type     Coase total travel (per single rotation) (mm)   0,4  <			
Stage   Type   Double layer     Dimensions (mm)   150x139     Moving mechanism   Rackless     Moving range (mm)   75x33     Moving range (mm)   75x33     Moving range (mm)   0.1     X-Y Vernier scale   Yes     Slide number   1     X-Y Vernier scale for simplified positioning   Yes     Numerical aperture (N.A.)   1.25     Magnification scale for simplified positioning   Yes     Focusing System   Type     Coarse total travel (per single rotation) (mm)   0,4     Fine resolution (µm)   18     Fine resolution (µm)   4     Upper stop to prevent contact   Yes			
I0X/0.25, W.D. 5.8 mm     I0S N-PLAN     IOS N-D.0.32 mm     Material     Anti-scratch painting     Specimen holder     Yes     Slide number     I     X-Y Vernier scale     Vernier scale accuracy (mm)     O.1     Type     Condense		Туре	
IOS N-PLAN     20x(0.40, W.D. 5.1 mm)     IOS N-PLAN     40x(0.65, W.D. 0.43 mm)     IOS W-PLAN MET     50x(0.75, W.D. 0.32 mm)     IOS W-PLAN MET     50x(0.75, W.D. 0.32 mm)     IOS model layer     Dimensions (mm)     150x139     Moving mechanism     Rackless     Moving range (mm)     75x33     Material     Anti-scratch painting     Specimen holder     Yes     Slide number     -X Y Vernier scale     Vernier scale accuracy (mm)     0.1     Condenser - Single     Position     Removable   Yes     Numerical aperture (N.A.)   1.25     Numerical aperture (N.A.)   1.25     Numerical aperture (N.A.)   1.25     Magnification scale for simplified positioning   Yes     Diaphragm   Iris     Centrable   Yes     Focusing System   Type   Coaxial coarse & fine     Coarse total travel (per single rotation) (mm)   0,4     Fine total travel (per single rotation) (mm) <td rowspan="3"></td> <td></td> <td></td>			
Stage   Type   Double layer     Dimensions (mm)   150x139     Moving mechanism   Rackless     Moving range (mm)   75x33     Material   Anti-scratch painting     Stide number   1     X-Y Vernier scale   Yes     Vernier scale accuracy (mm)   0.1     Vernier scale accuracy (mm)   1.25     Magnification scale for simplifi			
IOS N-PLAN     40x/0.65, W.D. 0.43 mm     IOS W-PLAN MET     50x/0.75, W.D. 0.32 mm     Stage     Type   Double layer     Dimensions (mm)   150x139     Moving mechanism   Rackless     Moving range (mm)   75x33     Material   Anti-scratch painting     Specimen holder   Yes     Slide number   1     X-Y Vernier scale   Yes     Vernier scale accuracy (mm)   0.1     Condenser - Single   Type     Position   Type     Removable   Yes     Numerical aperture (N.A.)   1.25     Magnification scale for simplified positioning   Yes     Numerical aperture (N.A.)   1.25     Magnification scale for simplified positioning   Yes     Focusing System   Type   Coaxial coarse & fine     Coarse total travel (mm)   18   Fine total travel (per single rotation) (mm)     Ine graduations   100   Fine resolution (µm)     Inite resolution (µm)   0.4   Fine resolution (µm)			
40x/0.65, W.D. 0.43 mm     IOS W-PLAN MET Sox/0.75, W.D. 0.32 mm     Stage   Type     Dimensions (mm)   150x139     Moving mechanism   Rackless     Moving range (mm)   75x33     Material   Anti-scratch painting     Specimen holder   Yes     Slide number   1     X-Y Vernier scale   Yes     Vernier scale accuracy (mm)   0.1     Condenser - Single     Position   Type     Abbe   Removable     Yes   Numerical aperture (N.A.)     Magnification scale for simplified positioning   Yes     Diaphragm   Iris     Centrable   Yes     Focusing System   Type     Fine total travel (per single rotation) (mm)   0,4     Fine resolution (µm)   18     Fine resolution (µm)   4     Upper stop to prevent contact   Yes			
IOS W-PLAN MET SDX/0.75, W.D. 0.32 mm     Stage     Type   Double layer     Dimensions (mm)   150x139     Moving mechanism   Rackless     Moving range (mm)   75x33     Material   Anti-scratch painting     Specimen holder   Yes     Slide number   1     X-Y Vernier scale   Yes     Vernier scale accuracy (mm)   0.1     Condenser - Single     Position   Type     Removable   Yes     Numerical aperture (N.A.)   1.25     Magnification scale for simplified positioning   Yes     Diaphragm   Iris     Centrable   Yes     Focusing System   Type     Coarse total travel (mm)   18     Fine total travel (per single rotation) (mm)   0,4     Fine graduations   100     Fine resolution (µm)   4     Upper stop to prevent contact   Yes			
Stage   Type   Double layer     Dimensions (mm)   150x139     Moving mechanism   Rackless     Moving range (mm)   75x33     Material   Anti-scratch painting     Specimen holder   Yes     Slide number   1     X-Y Vernier scale   Yes     Vernier scale accuracy (mm)   0.1     Ondenser - Single     Position   Type     Abbe   Removable     Numerical aperture (N.A.)   1.25     Magnification scale for simplified positioning   Yes     Diaphragm   Iris     Centrable   Yes     Focusing System   Type     Focusing System   Type     In travel (per single rotation) (mm)   0,4     Fine resolution (µm)   4     Upper stop to prevent contact   Yes			
Stage   Type   Double layer     Dimensions (mm)   150x139     Moving mechanism   Rackless     Moving range (mm)   75x33     Material   Anti-scratch painting     Specimen holder   Yes     Slide number   1     X-Y Vernier scale   Yes     Vernier scale accuracy (mm)   0.1     Condenser - Single     Position   Type     Abbe   Removable     Removable   Yes     Numerical aperture (N.A.)   1.25     Magnification scale for simplified positioning   Yes     Diaphragm   Iris     Centrable   Yes     Focusing System   Type     Coase total travel (mm)   18     Fine total travel (per single rotation) (mm)   0,4     Fine resolution (µm)   4     Upper stop to prevent contact   Yes			
Dimensions (mm)150x139Moving mechanismRacklessMoving range (mm)75x33MaterialAnti-scratch paintingSpecimen holderYesSlide number1X-Y Vernier scaleYesVernier scale accuracy (mm)0.1Ondenser - Single RemovablePositionTypeAbbeRemovableNumerical aperture (N.A.)1.25Magnification scale for simplified positioning DiaphragmYesDiaphragmIrisCentrableYesFocusing SystemTypeTypeCoaxial coarse & fineCoarse total travel (mm)18Fine total travel (per single rotation) (mm)0,4Fine graduations100Fine resolution (µm)4Upper stop to prevent contactYes			50x/0.75, W.D. 0.32 mm
Dimensions (mm)150x139Moving mechanismRacklessMoving range (mm)75x33MaterialAnti-scratch paintingSpecimen holderYesSlide number1X-Y Vernier scaleYesVernier scale accuracy (mm)0.1Ondenser - Single RemovablePositionTypeAbbeRemovableNumerical aperture (N.A.)1.25Magnification scale for simplified positioning DiaphragmYesDiaphragmIrisCentrableYesFocusing SystemTypeTypeCoaxial coarse & fineCoarse total travel (mm)18Fine total travel (per single rotation) (mm)0,4Fine graduations100Fine resolution (µm)4Upper stop to prevent contactYes	Change	Tune	Devide lever
Moving mechanismRacklessMoving range (mm)75x33MaterialAnti-scratch paintingSpecimen holderYesSlide number1X-Y Vernier scaleYesVernier scale accuracy (mm)0.1Condenser - SinglePositionTypeAbbeRemovableNumerical aperture (N.A.)1.25Magnification scale for simplified positioningYesDiaphragmIrisCentrableYesFocusing SystemTypeCoarse total travel (mm)18Fine total travel (per single rotation) (mm)0,4Fine graduations100Fine resolution (µm)4Upper stop to prevent contactYes	Stage		
Moving range (mm)75x33MaterialAnti-scratch paintingSpecimen holderYesSlide number1X-Y Vernier scaleYesVernier scale accuracy (mm)0.1Octomeser - Single RemovablePositionTypeAbbeRemovableNumerical aperture (N.A.)1.25Magnification scale for simplified positioning DiaphragmYesDiaphragmIrisCentrableYesFocusing SystemTypeCoarse total travel (mm)18Fine total travel (per single rotation) (mm)0,4Fine resolution (µm)4Upper stop to prevent contactYes			
MaterialAnti-scratch paintingSpecimen holderYesSlide number1X-Y Vernier scaleYesVernier scale accuracy (mm)0.1Ondenser - Single PositionPositionTypeAbbeRemovableNumerical aperture (N.A.)1.25Magnification scale for simplified positioning DiaphragmYesDiaphragmIrisCentrableYesFocusing SystemTypeTypeCoarse total travel (mm)Fine total travel (per single rotation) (mm)0,4Fine resolution (µm)4Upper stop to prevent contactYes			
Specimen holder   Yes     Slide number   1     X-Y Vernier scale   Yes     Vernier scale accuracy (mm)   0.1     Type     Position   Type     Removable   Yes     Numerical aperture (N.A.)   1.25     Magnification scale for simplified positioning   Yes     Diaphragm   Iris     Centrable   Yes     Focusing System   Type     Coaste total travel (mm)   18     Fine total travel (per single rotation) (mm)   0,4     Fine graduations   100     Fine resolution (µm)   4     Upper stop to prevent contact   Yes			
Slide number1X-Y Vernier scaleYesVernier scale accuracy (mm)0.1Condenser - Single PositionTypeAbbeRemovableYesNumerical aperture (N.A.)1.25Magnification scale for simplified positioning DiaphragmYesCentrableYesFocusing SystemTypeCoarse total travel (mm)18Fine total travel (per single rotation) (mm)0,4Fine graduations100Fine resolution (µm)4Upper stop to prevent contactYes			
X-Y Vernier scaleYesVernier scale accuracy (mm)0.1Condenser - Single PositionTypeAbbeRemovableYesNumerical aperture (N.A.)1.25Magnification scale for simplified positioning DiaphragmYesDiaphragmIrisCentrableYesFocusing SystemTypeCoarse total travel (mm)18Fine total travel (per single rotation) (mm)0,4Fine graduations100Fine resolution (µm)4Upper stop to prevent contactYes			
Vernier scale accuracy (mm)   0.1     Condenser - Single Position   Type   Abbe     Removable   Yes     Numerical aperture (N.A.)   1.25     Magnification scale for simplified positioning   Yes     Diaphragm   Iris     Centrable   Yes     Focusing System   Type     Coarse total travel (mm)   18     Fine total travel (per single rotation) (mm)   0,4     Fine graduations   100     Fine resolution (µm)   4     Upper stop to prevent contact   Yes			
Condenser - Single PositionTypeAbbeRemovableYesNumerical aperture (N.A.)1.25Magnification scale for simplified positioningYesDiaphragmIrisCentrableYesFocusing SystemTypeTypeCoaxial coarse & fineCoarse total travel (mm)18Fine total travel (per single rotation) (mm)0,4Fine resolution (µm)100Fine resolution (µm)4Upper stop to prevent contactYes			
PositionRemovableYesNumerical aperture (N.A.)1.25Magnification scale for simplified positioningYesDiaphragmIrisCentrableYesFocusableBy rack and pinionTypeCoarse total travel (mm)Fine total travel (per single rotation) (mm)0,4Fine graduations100Fine resolution (µm)4Upper stop to prevent contactYes		Vernier scale accuracy (mm)	0.1
PositionRemovableYesNumerical aperture (N.A.)1.25Magnification scale for simplified positioningYesDiaphragmIrisCentrableYesFocusableBy rack and pinionTypeCoarse total travel (mm)Fine total travel (per single rotation) (mm)0,4Fine graduations100Fine resolution (µm)4Upper stop to prevent contactYes		<b>—</b>	
Numerical aperture (N.A.)1.25Magnification scale for simplified positioningYesDiaphragmIrisCentrableYesFocusableBy rack and pinionFocusableCoaxial coarse & fineCoaxial coarse & fineCoarse total travel (mm)Fine total travel (per single rotation) (mm)0,4Fine graduations100Fine resolution (µm)4Upper stop to prevent contactYes	-		
Magnification scale for simplified positioningYesDiaphragmIrisCentrableYesFocusableBy rack and pinionFocusableCoaxial coarse & fineCoarse total travel (mm)Fine total travel (per single rotation) (mm)Fine graduations100Fine resolution (µm)4Upper stop to prevent contactYes	Position		
DiaphragmIrisCentrableYesFocusableBy rack and pinionFocusing SystemTypeCoarse total travel (mm)18Coarse total travel (per single rotation) (mm)0,4Fine total travel (per single rotation) (mm)0,4Fine graduations100Fine resolution (μm)4Upper stop to prevent contactYes			
CentrableYesFocusableBy rack and pinionFocusing SystemTypeCoarse total travel (mm)18Coarse total travel (per single rotation) (mm)0,4Fine total travel (per single rotation) (mm)0,4Fine graduations100Fine resolution (µm)4Upper stop to prevent contactYes			
FocusableBy rack and pinionFocusing SystemTypeCoaxial coarse & fineCoarse total travel (mm)18Fine total travel (per single rotation) (mm)0,4Fine graduations100Fine resolution (μm)4Upper stop to prevent contactYes			
Focusing SystemTypeCoaxial coarse & fineCoarse total travel (mm)18Fine total travel (per single rotation) (mm)0,4Fine graduations100Fine resolution (μm)4Upper stop to prevent contactYes			
Coarse total travel (mm)18Fine total travel (per single rotation) (mm)0,4Fine graduations100Fine resolution (μm)4Upper stop to prevent contactYes		Focusable	By rack and pinion
Coarse total travel (mm)18Fine total travel (per single rotation) (mm)0,4Fine graduations100Fine resolution (μm)4Upper stop to prevent contactYes		-	
Fine total travel (per single rotation) (mm)0,4Fine graduations100Fine resolution (μm)4Upper stop to prevent contactYes	Focusing System		
Fine graduations100Fine resolution (μm)4Upper stop to prevent contactYes			
Fine resolution (μm) 4   Upper stop to prevent contact Yes			
Upper stop to prevent contact Yes			
Adjustable tension Yes		Adjustable tension	Yes
			-
Transmitted     Kohler illumination     Fixed			
	Illumination		
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		Max. required power (W)	6
	_		
Power Supply for     Type     External			
Transmitted     Microscope connector     Jack, 2.1 mm			
Illumination     Power plug type     Multi-plug (EU, UK, US)	Illumination		
Input voltage 100/240 Vac, 50/60 Hz			
Output voltage 6 Vdc 2.5 A		Output voltage	6 Vdc 2.5 A

Accessories Included	Dust cover	Yes
Accessories included	Tension adjustment tool	Yes
	User Manual	Digital version (downloadable)
	User Marida	
Additional Information		
		Mirror for transmitted light (as optional).
		External rechargeable battery pack (as optional).
<b>Product Dimensions</b>	Height (mm)	440
	Width (mm)	235
	Depth (mm)	340
Product Weight	(kg)	7.5
Fluorescence	Number of positions	3
Attachment	Blue filter set (included)	Excitation: 460 - 490 nm; Dichroic: 505 nm;
		Emission: 515LP nm
		Excitation: 18 mm diam.;
	Filter dimensions	Dichroic: 26.5 mm x 19 mm;
		Emission: 18 mm diam.
	Filter set selection	Manual
Fluorescence Light	Light source	Blue LED
Source	Light source power (W)	3.6
	LED wavelength	Blue LED: 465 nm
	Lifetime (hours)	> 65,000
	Brightness control	Yes