



*Digital video microscope, 1000x,  
rechargeable, N-PLAN objectives*

<b>Observation Method - Transmitted Light</b>	Brightfield	Yes
	Simple polarized light	As optional
<b>Main Body</b>	Type	Upright
	Construction material	Aluminum die-cast
<b>Head</b>	Type	Binocular (Siedentopf)
	Inclination	30°
	360° rotating	Yes
	Interpupillary distance (mm)	48-75
	Diopter adjustment	On left tube
	Fixing screw for eyepieces	Yes
	Tube inner diameter (mm)	23
<b>Eyepieces</b>	Field number (mm)	18
	Magnification	10x
	Pointer	As optional
	Micrometric scale	As optional
	Diameter of micrometer glass (mm)	20
	High eyepoint (for glass wearers)	Yes
<b>Nosepiece</b>	Positions	Quadruple
	Bi-directional	Yes
	Rotation on ball bearings	Yes
	Objective thread	RMS
<b>Objectives</b>	Optical system	160
	Anti-fungus treatment	Yes
	Parfocal distance (mm)	45
	Standard magnifications	40x-1000x
	Type	N-PLAN
		4x/0.10, W.D. 15.2 mm
		10x/0.25, W.D. 5.5 mm
		40x/0.65, W.D. 0.45 mm 100x/1.25 (Oil/Water), W.D. 0.13 mm

<b>Stage</b>	Type	Double layer
	Dimensions (mm)	125x116
	Moving mechanism	Rack and pinion
	Moving range (mm)	70x30
	Material	Anti-scratch painting
	Specimen holder	Yes
	Slide number	1
	X-Y movement	Yes
	X-Y Vernier scale	Yes
	Vernier scale accuracy (mm)	0.1

<b>Condenser - Single Position</b>	Type	Abbe
	Removable	No
	Numerical aperture (N.A.)	1.25
	Diaphragm	Iris
	Centrable	Pre-centered
	Focusable	By rotation

<b>Focusing System</b>	Type	Coaxial coarse & fine
	Focus modes	Coarse & fine
	Coarse total travel (mm)	16
	Fine graduations	100
	Fine total travel (per single rotation) (mm)	0,4
	Fine resolution ( $\mu\text{m}$ )	4
	Upper stop to prevent contact	Yes
	Adjustable tension	Yes

<b>Transmitted Illumination</b>	Type	X-LED
	X-LED type	X-LED1
	Light source power (W)	1
	Brightness control	Manual
	Lifetime (hours)	> 65,000
	Temperature (K)	6,300
	Max. required power (W)	1,5

<b>Power Supply for Transmitted Illumination</b>	Type	External
	Microscope connector	Jack, 2.1 mm
	Power plug type	Multi-plug (EU, UK, US)
	Input voltage	100/240 Vac, 50/60 Hz
	Output voltage	5 Vdc 500 mA
	LED indicator	Yes
	Rechargeable batteries	Yes
	Battery type	Li-ion (battery pack)
	Working time of batteries (hours)	15
Charging time of batteries (hours)	6	

<b>Accessories Included</b>	Dust cover	Yes
	Immersion oil (10ml)	Yes
	Tension adjustment tool	Yes
	User Manual	Digital version (downloadable)

<b>Additional Information</b>		Mirror for transmitted light (as optional)
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<b>Product Dimensions</b>	Height (mm)	350
	Width (mm)	170

	Depth (mm)	320
<b>Product Weight</b>	(kg)	4
<b>Camera General specifications</b>	SD Card Still image capture	Yes
	SD Card Video recording	Yes
	Dimensions (mm)	180 x 150 x 90
	Weight (kg)	0.360
<b>Sensor</b>	Camera resolution (n° of pixels: W x H)	1844x1080
	Color / Monochrome	Color
	Sensor Size	1/2.8"
	Sensor Technology	CMOS
	Sensor Type	MICRON CMOS
	Image Format	16/9
	Pixel Size (mm)	2.9x2.9
	Acquisition technology	Rolling shutter
	Exposure time	0-33333ms
	IR filter	Yes
	IR filter range (nm)	680
<b>USB</b>	Camera resolution (MP)	2
	Frame rate full resolution (fps)	30@1844x1080
<b>Camera Power Supply</b>	Type	External
	Connector	Jack, 2.1 mm
	Power plug type	Multiplug (EU, UK, US)
	Input voltage	100/240 Vac, 50/60Hz
	Output voltage	5 Vdc 500mA
	LED indicator	Yes
<b>Available Software</b>	Camera SW	S-Viewer
<b>HDMI Monitor</b>	Display size	7"
	Display resolution	1024x600
<b>System accessories</b>	SD card	4GB
	USB SD card reader	Yes
<b>General</b>	<b>Built-in SW Specifications</b>	
	Multi-language menu	Yes
	Available languages	
	Chinese	Yes
	English	Yes
	Russian	Yes
<b>Image Acquisition</b>	Continuous automatic exposure	Yes
	Manual exposure	Yes
	Color acquisition	Yes
	Gray-scale acquisition	Yes
	Manual Time-lapse	Yes
	White Balance	Auto/Manual
	Image enhancement	Yes
	Horizontal Flip	Yes
	Verical Flip	Yes

<b>Image Processing</b>	Grids	Yes
<b>Measurements</b>	Still image measurement	Yes
	Select measurement unit	Yes
	Available measurements	
	Line	Yes