



*Digital binocular microscope, 1000x, integrated 3.2 MP camera, 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
	Dioptric 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
<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
	Objectives included	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
Dimensions (mm)	125x116	
Moving mechanism	Rack and pinion	
Moving range (mm)	70x30	
Material	Anti-scratch painting	
Specimen holder	Yes	
Slide number	1	
X-Y Vernier scale	Yes	
Vernier scale accuracy (mm)	0.1	

<b>Condenser - Single Position</b>	Type	Abbe
	Numerical aperture (N.A.)	1.25
	Diaphragms	Iris
	Centrable	Pre-centered
	Focusable	By rotation

<b>Focusing System</b>	Type	Coaxial coarse & fine
	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
	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)
	USB cable (m)	1.8
	CD-ROM	Yes

<b>Additional Information</b>		Mirror for transmitted light (as optional)
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<b>Product Dimensions</b>	Height (mm)	365
	Width (mm)	170
	Depth (mm)	320

<b>Product Weight</b>	(kg)	4
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<b>Digital Head</b>	Resolution (MP)	3.2
	Sensor type	CMOS
	Sensor size	1/2.5"
	Sensor aspect ratio	4/3
	Full image size	2048x1536
	Pixel size (µm)	2.2x2.2
	Frame rate	4 fps (2048x1536), 8 fps (1280x1024), 30 fps (640x480)
	S/N ratio (dB)	40
	Dynamic range (dB)	66.5
	Sensitivity (V/lux*s @550nm)	0.53
	Exposure time (s)	15 - 1/1500
	USB type	2.0
	System requirements	Win 7 / Win 8 / Win 10 (32/64 bit)
	Software	OPTIKA Vision Lite