



Digital monocular microscope, 400x, integrated 3 MP camera, rechargeable, N-PLAN objectives

Observation Method - Transmitted Light	Brightfield	Yes
	Simple polarized light	As optional
Main Body	Type	Upright
	Construction material	Aluminum die-cast
Head	Type	Monocular
	Inclination	30°
	360° rotating	Yes
	Fixing screw for eyepieces	Yes
	Tube inner diameter (mm)	23
Eyepieces	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
Nosepiece	Positions	Quadruple
	Bi-directional	Yes
	Rotation on ball bearings	Yes
	Objective thread	RMS
Objectives	Optical system	160
	Anti-fungus treatment	Yes
	Parfocal distance (mm)	45
	Standard magnifications	40x-400x
	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	
Stage	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
Condenser - Single Position	Type	Abbe
	Numerical aperture (N.A.)	1.25
	Diaphragm	Iris
	Centrable	Pre-centered
	Focusable	By rotation
Focusing System	Type	Coaxial coarse & fine
	Coarse total travel (mm)	16
	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
Transmitted Illumination	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
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
	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	
Accessories Included	Dust cover	Yes
	Tension adjustment tool	Yes
	User Manual	Digital version (downloadable)
	USB cable (m)	1.8
Additional Information		Mirror for transmitted light (as optional)
Product Dimensions	Height (mm)	365
	Width (mm)	170
	Depth (mm)	320

Product Weight	(kg)	4
Camera General specifications	USB output	Yes
	C-Mount	Yes
	Dimensions (mm)	Included in the microscope head
	Weight (kg)	Included in the microscope head
Sensor	Camera resolution (n° of pixels: W x H)	2048x1536
	Color / Monochrome	Color
	Sensor Size	1/2.5"
	Sensor Technology	CMOS
	Sensor Type	APTINA CMOS
	Image Format	4/3
	Pixel Size (mm)	2.2x2.2
	Acquisition technology	Rolling shutter
	Sensitivity	0.53 V/lux-second
	Signal/Noise Ratio (DB)	40.5
	Dynamic range (DB)	66.5
	ADC conversion	12 Bit
	Color Depth	8 Bit
	Exposure time	0.1 - 1.5 sec
	Binning	1x1
	IR filter	Yes
IR filter range (nm)	380-650 (IR CUT)	
USB	Camera resolution (MP)	3.1
	USB standard	USB2.0
	Frame rate full resolution (fps)	4@2048x1536
	Frame rate other resolution (fps)	8@1280x1024; 30@640x480
Camera Power Supply	Output voltage	PC USB
	LED indicator	Yes
Environment	Working Temperature	-10°C up to +50°C
	Storage Temperature	-20°C up to +60°C
	Relative Humidity	30% to 80%
	Storage Humidity	10% to 60%
Operating System	OS	Windows 8
	OS	Windows 10 (32Bit)
	OS	Windows 10 (64Bit)
	OS	Windows 11
Available Software	PC SW	PROVIEW
PC requirements	PC	CPU: Intel Core2 - 2.8GHz or higher
	PC	RAM: 2GB or more
	PC	USB 2.0