

Digital stereomicroscope with 4 MP USB/LAN/WiFi camera, precision fixed arm, 10x - 20x - 40x, touch panel, with rechargeable battery

Main Body	Type	Stereo
	Construction material	Aluminum die-cast + Plastic
	with trasportation handle	Yes
	Internal prism	Glass prism
	Optics with anti-fungus treatment	Yes
	Zoom type	Rotating turret
	Working distance (mm)	60

Head	Type	Binocular
	Construction	Siedentopf
	Built-in camera	Yes
	Inclination	45°
	Fixing screw for eyepieces	Yes
	Diopter adjustment	On both tubes
	Diopter compensation	±5
	Interpupillary distance (mm)	53-75
	Tube inner diameter (mm)	30.5

Eyepieces	Magnification	10x
	Field number (mm)	20
	Micrometric scale	Optional
	Diameter of micrometer glass (mm)	22
	Rubber cup	Yes

Objective	Type	ACH
	Correction	Achromatic
	Optical system	Greenough
	Standard magnifications	10x, 20x, 40x (rotating turret)
	Objective resolution	7 lp/mm @ 1x lens 19 lp/mm @ 2x lens 24 lp/mm @ 4x lens

Stand	Type	Precision fixed arm

Stage	Specimen clips	Yes
	Frosted diffusion plate for transmitted ill.	Yes, diam. 60 mm
	Black/white contrast plate for incident ill.	Yes, diam. 60 mm

Focusing System	Type	Coarse
	Focus modes	Coarse
	Coarse total travel (mm)	41
	Adjustable tension	Yes

Observation Method - Transmitted Light	Brightfield	Yes

Observation Method - Incident Light	Brightfield	Yes

Transmitted Illumination	Type	LED
	Light source power (W)	1
	Brightness control	Touch Panel
	Color temperature (K)	5,500
	Lifetime (hours)	> 65,000
	Max. required power (W)	1,5

Incident Illumination	Type	LED
	Light source power (W)	1
	Illuminance (lux)	No
	Brightness control	Touch Panel
	Lifetime (hours)	> 65,000
	Temperature (K)	5,500
	Max. required power (W)	1,5

Power Supply for 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 2.5 A
	Use with batteries	Yes, not supplied
	Battery type	Ni-MH (3x, AA size), 1.2V, 1300mAh
	Working time of batteries (hours)	up to 8
	Charging time of batteries (hours)	8

Accessories Included	Dust cover	Yes
	Tension adjustment tool	Yes
	User Manual	Digital version (downloadable)
	USB cable (m)	1,8
	Calibration slide	Yes

Product Dimensions	Total height (mm)	300
	Total width (mm)	180
	Total depth (mm)	225
	Base height (mm)	45
	Base width (mm)	180
	Base depth (mm)	225

Product Weight	(kg)	2.5

Camera General specifications	Battery operated	Yes
	WiFi output	Yes
	Ethernet output	Yes
	Dimensions (mm)	Built-in
	Weight (kg)	Built-in

Sensor	Camera resolution (n° of pixels: W x H)	2688x1512
	Color / Monochrome	Color
	Sensor Size	1/1.8"
	Sensor Technology	CMOS
	Sensor Type	SONY
	Image Format	16/9
	Pixel Size (µm)	2.9x2.9
	Acquisition technology	Rolling shutter
	Signal/Noise Ratio (DB)	43
	Dynamic range (DB)	61
	G sensitivity	921mV at 1/30s
	Dark Signal	0.15mV at 1/30s
	ADC conversion	8 Bit - 12Bit
	Color Depth	8 Bit
	Exposure time	0.021 msec - 1 sec
	Binning	1x1
	IR filter	Yes
	IR filter range (nm)**	380-650 (IR CUT)

USB	PC Camera resolution (MP)	4
	USB standard	Micro USB-B
	Frame rate full resolution (fps)	30@2688*1512

WiFi	WiFi resolution (MP)	4
	WiFi Frame rate full resolution (fps)	30@2688*1512
	WiFi Speed	802.11ac 150Mbps (WiFi 5)
	WiFi Signal	From the camera
	WiFi Antenna	Yes
	WiFi Signal ready	About 10 seconds after turning on
	WiFi mode	AP / STA
	Max Users connected to a single camera	3
	Max number of cameras in a room (AP mode)	6
	Max number of cameras in a room (STA mode)	not fixed. 9 cameras must be connected to a router

Ethernet	Ethernet resolution (MP)	4
	Ethernet type	802.3ab

Camera accessories	Optical adapter (for 23mm eyepiece tube)	0.5x
	Diameter of adapter ring (mm)	30
	Diameter of adapter ring (mm)	30.5
	Calibration slide	Yes
	USB cable (1.8m)	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
	OS	Osx (MAC Osx) starting from 10.7.5 (only LITEVIEW)
	OS	Linux (only LITEVIEW)
	OS	Android
	OS	IOS

Available Software	PC SW	PROVIEW
	PC SW	LITEVIEW

PC requirements	PC	CPU: Intel Core2 - 2.8GHz or higher
	PC	RAM: 2GB or more
	PC	USB 2.0

Software functions	SW	See "Software Function List"