Digital binocular brightfield microscope, 1000x, HC objectives, 3.1 MP camera with tablet

Observation Method - Transmitted Light	Brightfield	Yes
	Simple polarized light	As optional

Main Body	Type	Upright
	Construction material	Aluminum die-cast
	Trasportation handle	Yes

Head	Type	Binocular (Siedentopf)
	Inclination	30°
	360° rotating	Yes
	Interpupillary distance (mm)	48-75
	Dioptric adjustement	On left tube
	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
	Reversed	Yes
	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-1000x
	Type	HC
		4x/0.10, W.D. 18 mm
		10x/0.25, W.D. 7 mm
		40x/0.65, W.D. 0.53 mm
		100x/1.25 (Oil/Water), W.D. 0.13 mm

Stage	Type	Double layer
	Dimensions (mm)	125x115
	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
	Centrable	Pre-centered
	Focusable	By rotation

Focusing System	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

Transmitted Illumination	Type	X-LED
	X-LED type	X-LED2
	Light source power (W)	3
	Brightness control	Manual
	Lifetime (hours)	> 65,000
	Temperature (K)	6,300
	Max. required power (W)	6

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	6 Vdc 2.5 A

Accessories Included	Dust cover	Yes
	Immersion oil (10ml)	Yes
	Tension adjustment tool	Yes
	User Manual	Digital version (downloadable)
	Calibration slide	Yes
	Touch pen	Yes
	USB cable (m)	0.5

Additional Information		External rechargeable battery pack (as optional). Tablet Keyboard (as optional).

Product Dimensions	Height (mm)	525
	Width (mm)	260
	Depth (mm)	320

Product Weight	(kg)	7.4

Camera specifications	PC Camera resolution (MP)	3.1
	Camera resolution (n° of pixels: W x H)	2048x1536
	USB Signal output	USB 2.0
	Color / Monochrome	Color
	Sensor Size	1/2.5"
	Sensor Technology	CMOS
	Sensor Type	APTINA CMOS
	Rolling Shutter	Yes
	Image Format	4/3
	Pixel Size (µm)	2.2x2.2
	Frame rate full resolution (fps)	8@1280x1024
	Frame rate other resolution (fps)	30@640x480
	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	… - 1.5 sec
	Binning	1x1
	IR filter	Yes
	IR filter range (nm)	680
	Camera Power	PC USB
	C-Mount	Yes

Camera accessories	Calibration slide	Yes

Environment specifications	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 10 (64Bit)

Available Software	SW	PROVIEW

Warranty	Years	2

Tablet	Operating system	Windows 10 (64Bit)
	CPU	Intel® Atom™ Z8350, Quad core
	CPU speed	1.44 GHz
	Graphic card	Intel® HD Graphics 400
	RAM	Ram 4 GB LPDDR3
	Display size	LED 10.1” IPS Multi Touch Screen
	Display resolution	1920x1200
	Storage	Hdd 64 GB
	Network	Wireless - Bluetooth 4.0
	Input ports	Micro USB (OTG) - USB Type-C - Micro SD card reader
	Output ports	Microphone - Headphone - Micro HDMI
	Battery Type	Lithium-ion
	Battery capacity	6500 mAh
	Power consumption	15W
	Power supply	5V 3A
	Dimensions (mm)	261X167X9
	Weight (Kg)	0.53
	Language	Multilanguage

Tablet accessories	OTG cable (micro USB-B to USB-A)	Yes
	USB cable USB-B to USB-A (0.5m)	Yes
	Touch pen	Yes