



B-290 Digital binocular microscope with digital imaging unit, 1000x, PLAN, EU

Main Body	Type	Upright
	Construction material	Aluminum die-cast
	with transportation handle	Yes
	Internal prism	Glass prism
	Optical system	Finite 160 mm
	Optics with anti-fungus treatment	Yes
Head	Type	Binocular
	Construction	Siedentopf
	Inclination	30°
	Rotation	360°
	Fixing screw for eyepieces	Yes
	Diopter adjustment	On left tube
	Diopter compensation	+5
	Interpupillary distance (mm)	55-75
	Tube inner diameter (mm)	23
Eyepieces	Magnification	10x
	Field number (mm)	20
	High eyepoint (for glass wearers)	Yes
	Micrometric scale	Optional
	Diameter of micrometer glass (mm)	21
	Rubber cup	Yes
Nosepiece	Positions	Quadruple
	Reversed	Yes
	Bi-directional	Yes
	Rotation on ball bearings	Yes
	Objective thread	RMS
Objectives	Type	N-PLAN
	Correction	Plan Achromatic
	Parfocal distance (mm)	DIN 45
	Optical system	Finite 160 mm
	Standard magnifications	4x-10x-40x-100x
		M-164
		M-165
		M-167
	M-169	

Stage	Dimensions (mm)	150x140
	Mechanical stage	Rackless
	Material	Anti-scratch painting
	Specimen holder	Yes
	Slide number	1
	Moving range (mm)	75x33
	X-Y movement	Yes
	X-Y Vernier scale	Yes
	Vernier scale accuracy (mm)	0.1
	Type	Double layer
	Right / Left hand	Right

Condenser - Single Position	Type	Abbe
	Numerical aperture (N.A.)	0.9 / 1.25
	Magnification scale for simplified positioning	Yes
	Aperture diaphragm	Iris
	Removable	Yes
	Slot for sliders	Yes
	Slider for phase contrast	Optional
	Slider for darkfield (dry)	Optional
	Centerable	Yes
	Focusable	By rack and pinion

Focusing System	Type	Coaxial coarse & fine
	Focus modes	Coarse & fine
	Coarse total travel (mm)	18
	Fine graduations	360
	Fine total travel (per single rotation) (mm)	0,4
	Fine resolution (μm)	4
	Upper stop to prevent contact	Yes
	Adjustable tension	Yes

Observation Method - Transmitted Light	Brightfield	Yes
	Phase contrast (Positive type)	Optional
	Darkfield	Optional
	Simple polarized light	Optional

Transmitted Illumination	Type	X-LED
	X-LED type	X-LED3
	Light source power (W)	3.6
	Brightness control	Manual
	Kohler illumination	Fixed
	Color Temperature (K)	6,300
	Lifetime (hours)	> 65,000
	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

	USB cable (m)	0,5
Product Dimensions (footprint)	Width (mm) (E)	140
	Depth (mm) (D)	220
Product Dimensions (overall footprint)	Height (mm) (C)	525
	Width (mm) (B)	260
	Depth (mm) (A)	320
Product Weight	(kg)	7.4
Camera General specifications	Height (mm) (C)	Included in the microscope head
	Weight (kg)	Included in the microscope head
Sensor	Camera resolution (n° of pixels: W x H)	2592x1944
	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	18.8ke/lus
	Signal/Noise Ratio (DB)	40
	Dynamic range (DB)	73
	ADC conversion	12 Bit
	Color Depth	8 Bit
	Exposure time	0.1 msec - 1 sec
	Binning	1x1
IR filter	Yes	
IR filter range (nm)	380-650 (IR CUT)	
USB	Camera resolution (MP)	5.1
	USB standard	USB2.0
	Frame rate full resolution (fps)	30@2592x1944
	Frame rate other resolution (fps)	30@1280x960 30@640x480
Camera Power Supply	Connector	USB
	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 11
Available Software	PC SW	PROVIEW
	Operating system	Windows 11
	CPU	Intel® Core M3-8100Y
	CPU speed	1.10 GHz
	Graphic card	Intel® HD Graphics 500
	RAM	Ram 12 GB DDR3
	Display size	LED 10.1" IPS Multi Touch Screen
	Display resolution	1280x800

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Digital Imaging Unit	Storage	Hdd 256 GB
	Network	802.11a/b/g/n/ac WiFi5
	Input ports	USB 3.0, Type C (x2)
	Output ports	Headphone - Micro HDMI
	Battery Type	Lithium-ion
	Battery capacity	3400 mAh
	Power consumption	25,84WW
	Power supply	12V 2A EU
	Dimensions (mm)	247 x 165 X 9
	Weight (Kg)	0.57
	Language	Multilanguage