



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

<b>Observation Method - Transmitted Light</b>	Brightfield	Yes
	Phase contrast (positive type)	As optional
	Darkfield	As optional
	Simple polarized light	As optional
<b>Main Body</b>	Type	Upright
	Construction material	Aluminum die-cast
	Trasportation handle	Yes
<b>Head</b>	Type	Binocular (Siedentopf)
	Inclination	30°
	360° rotating	Yes
	Interpupillary distance (mm)	48-75
	Diopter adjustment	On left tube
	Fixing screw for eyepieces	Yes
Tube inner diameter (mm)	23	
<b>Eyepieces</b>	Field number (mm)	20
	Magnification	10x
	Pointer	As optional
	Micrometric scale	As optional
	Diameter of micrometer glass (mm)	21
	High eyepoint (for glass wearers)	Yes
Rubber cup	Yes	
<b>Nosepiece</b>	Positions	Quadruple
	Reversed	Yes
	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
		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	Double layer
	Dimensions (mm)	150x139
	Moving mechanism	Rackless
	Right / Left hand	Right
	Moving range (mm)	75x33
	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
	Removable	Yes
	Numerical aperture (N.A.)	1.25
	Magnification scale for simplified positioning	Yes
	Diaphragm	Iris
	Centerable	Yes
	Focusable	By rack and pinion
<b>Focusing System</b>	Type	Coaxial coarse & fine
	Focus modes	Coarse & fine
	Coarse total travel (mm)	18
	Fine graduations	100
	Fine total travel (per single rotation) (mm)	0,4
	Fine resolution ( $\mu\text{m}$ )	4
	Upper stop to prevent contact	Yes
Adjustable tension	Yes	
<b>Transmitted Illumination</b>	Kohler illumination	Fixed
	Type	X-LED
	X-LED type	X-LED3
	Light source power (W)	3.6
	Brightness control	Manual
	Lifetime (hours)	> 65,000
	Temperature (K)	6,300
Max. required power (W)	6	
<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	6 Vdc 2.5 A	
<b>Accessories Included</b>	Dust cover	Yes
	Immersion oil (10ml)	Yes
	Tension adjustment tool	Yes
	User Manual	Digital version (downloadable)
	Calibration slide	Yes
	USB cable (m)	0,5
<b>Additional Information</b>		Mirror for transmitted light (as optional). External rechargeable battery pack (as optional).
<b>Product Dimensions</b>	Height (mm)	525
	Width (mm)	260

	Depth (mm)	320
<b>Product Weight</b>	(kg)	7.4
<b>Camera General specifications</b>	USB output	Yes
	C-Mount	Yes
	Dimensions (mm)	Included in the microscope head
	Weight (kg)	Included in the microscope head
<b>Sensor</b>	Camera resolution (n° of pixels: W x H)	2592x1944
	Color / Monochrome	Color
	Sensor Size	1/2.5"
	Sensor Technology	CMOS
	Sensor Type	APTINA CMOS
	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
	IR filter range (nm)	380-650 (IR CUT)
<b>USB</b>	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
<b>Camera Power Supply</b>	Output voltage	PC USB
	LED indicator	Yes
<b>Environment</b>	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%
<b>Available Software</b>	PC SW	PROVIEW
<b>Digital Imaging Unit</b>	Operating system	Windows 11
	CPU	Intel® Celeron, N3350
	CPU speed	1.10 GHz
	Graphic card	Intel® HD Graphics 500
	RAM	Ram 6 GB DDR3
	Display size	LED 10.1" IPS Multi Touch Screen
	Display resolution	1920x1200
	Storage	Hdd 128 GB (EMMC)
	Network	802.11b/g/n/ac,2.4GHz
	Input ports	USB 3.0, Type C, Micro SD card reader, Microphone, DC in
	Output ports	Headphone - Micro HDMI
	Battery Type	Lithium-ion
	Battery capacity	3500 mAh
	Power consumption	24.05W
	Power supply	12V 2A EU
	Dimensions (mm)	247 x 165 X 9
	Weight (Kg)	0.57
Language	Multilanguage	