

Product information

VWR® Binocular brightfield microscope BL254 T1

EU cat. no 630-2673



Observation Method - Transmitted Light	Brightfield	Yes
	Phase contrast (positive type)	As optional
	Darkfield	As optional
	Simple polarized light	As optional

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

Head	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

Eyepieces	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

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	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

Stage	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

Condenser - Single Position	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
Focusing System	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 (µm)	4
	Upper stop to prevent contact	Yes
	Adjustable tension	Yes
Transmitted Illumination	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
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
Additional Information		Mirror for transmitted light (as optional). External rechargeable battery pack (as optional).
Product Dimensions	Height (mm)	525
	Width (mm)	260
	Depth (mm)	320
Product Weight	(kg)	7.4
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)	2.8x2.8
	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	Connector	No
	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%

Available Software	PC SW	PROVIEW
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Digital Imaging Unit	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