B-151R-PLV

OPTIKA

Rev.2026003



Digital video microscope, 400x, rechargeable, N-PLAN objectives

Main Body	Type	Upright
	Construction material	Aluminum die-cast
	with trasportation handle	Yes
	Internal prism	Glass prism
	Optical system	Finite 160 mm
	LED indicator	Yes
	Optics with anti-fungus treatment	Yes
Head	Type	Monocular
	Inclination	30°
	Rotation	360°
	Fixing screw for eyepieces	Yes
	Tube inner diameter (mm)	23
Eyepieces	Magnification	10x
	Field number (mm)	18
	High eyepoint (for glass wearers)	Yes
	Micrometric scale	Optional
	Diameter of micrometer glass (mm)	20
Nosepiece	Positions	Quadruple
	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
Stage	Dimensions (mm)	130x120
	Mechanical stage	Optional
	Material	Anti-scratch painting
	Specimen clips	Yes
	Slide number	1
	Type	Fixed

Condenser - Single Position	Type	Fixed
	Numerical aperture (N.A.)	0.65
	Aperture diaphragm	Iris
	Holder for color filters	Yes
	Centerable	Pre-centered
Focusing System	Type	Coaxial coarse & fine
	Focus modes	Coarse & fine
	Coarse total travel (mm)	16
	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
Observation Method - Transmitted Light	Brightfield	Yes
	Simple polarized light	Optional
Transmitted Illumination	Type	X-LED
	X-LED type	X-LED1
	Light source power (W)	1
	Brightness control	Manual
	Color Temperature (K)	5,500-5,700
	Lifetime (hours)	> 65,000
	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
	Rechargeable Battery	Yes
	Battery type	Li-ion (battery pack)
	Working time of batteries (hours)	15
	Charging time of batteries (hours)	6
Accessories Included	Dust cover	Yes
	Tension adjustment tool	Yes
	Green filter	Yes
	User Manual	Digital version (downloadable)
Product Dimensions (overall footprint)	Height (mm)	385
	Width (mm)	175
	Depth (mm)	275
Product Weight	(kg)	4,3
Monitor	Display size	7"
	Display resolution	1024x600
	SD Card	Yes
	SD Card reader	Yes

Camera General specifications	USB output	Yes
	Dimensions (mm)	180x150x90
	Weight (kg)	0,36
Sensor	Camera resolution (n° of pixels: W x H)	1844x1080
	Color / Monochrome	Color
	Sensor Size	1/2.8"
	Sensor Technology	CMOS
	Sensor Type	MICRON CMOS
	Image Format	16:9
	Pixel Size (µm)	2.9x2.9
	Acquisition technology	Rolling shutter
	Exposure time	0-33333ms
	IR filter	Yes
	IR filter range (nm)**	680

**** If used for red emission fluorescence wavelengths above 650nm please order it by specifying with "AR GLASS"**

USB	Camera resolution (MP)	2
	Frame rate full resolution (fps)	30@1844x1080

Camera Power Supply	Type	External
	Connector	Jack, 2.1 mm
	Power plug type	Multiplug (EU, UK, US)
	Input voltage	100/240 Vac, 50/60Hz
	Output voltage	5Vdc 2,5A
	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	Built-in Camera SW	S-VIEWER

Software functions	SW	See "Software Function List"