OPTIKA

Rev.2026003

Digital video microscope, 400x, achromatic objectives

Main Body	Type	Upright
	Construction material	Aluminum die-cast
	with trasportation handle	Yes
	Internal prism	Glass prism
	Optical system	Finite 160 mm
	Optics with anti-fungus treatment	Yes
Head	Type	Monocular
	Inclination	45°
	Rotation	360°
	Fixing screw for eyepieces	Yes
	Tube inner diameter (mm)	23
Eyepieces	Magnification	10x
	Field number (mm)	18
	Micrometric scale	Optional
Nosepiece	Positions	Quadruple
	Reversed	Yes
	Bi-directional	Yes
	Rotation on ball bearings	Yes
	Objective thread	RMS
Objectives	Type	ACH
	Correction	Achromatic
	Parfocal distance (mm)	DIN 45
	Optical system	Finite 160 mm
	Standard magnifications	4x-10x-40x
		M-131
		M-132
		M-134

Stage	Dimensions (mm)	125x125
	Mechanical stage	Rack and pinion
	Material	Anti-scratch painting
	Specimen holder	Yes
	Slide number	1
	Moving range (mm)	62x24
	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
	Aperture diaphragm	Iris
	Holder for color filters	Yes
	Centerable	Pre-centered
	Focusable	By rotation
Focusing System	Type	Coaxial coarse & fine
	Focus modes	Coarse & fine
	Coarse total travel (mm)	23
	Coarse total travel (per single rotation) (mm)	0.9
	Fine graduations	100
	Fine total travel (per single rotation) (mm)	1,2
	Fine resolution (µm)	12
	Upper stop to prevent contact	Yes
Observation Method - Transmitted Light	Brightfield	Yes
	Simple polarized light	Optional
Transmitted Illumination	Type	LED
	Light source power (W)	1
	Brightness control	Manual
	Color Temperature (K)	5,500
	Lifetime (hours)	> 65,000
	Max. required power (W)	1,5
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	5 Vdc 2,5 A
	Use with batteries	Yes, not supplied
	Rechargeable Battery	Yes
	Battery type	Ni-MH (3x, AAA size), 1.2V, 650mAh
	Working time of batteries (hours)	up to 11
	Charging time of batteries (hours)	8
Accessories Included	Dust cover	Yes
	User Manual	Digital version (downloadable)
Product Dimensions (footprint)	Width (mm)	133
	Depth (mm)	175

Product Dimensions (overall footprint)	Height (mm)	350
	Width (mm)	158
	Depth (mm)	250
Product Weight	(kg)	3
Camera General specifications	SD Card Still image capture	Yes
	SD Card Video recording	Yes
	Dimensions (mm)	180 x 150 x 90
	Weight (kg)	0.360
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 (mm)	2.9x2.9
	Acquisition technology	Rolling shutter
	Exposure time	0-33333ms
	IR filter	Yes
	IR filter range (nm)	680
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	5 Vdc 2,5A
	LED indicator	Yes
Available Software	Camera SW	S-Viewer
HDMI Monitor	Display size	7"
	Display resolution	1024x600
System accessories	SD card	4GB
	USB SD card reader	Yes
General	**Built-in SW Specifications**	
	Multi-language menu	Yes
	Available languages	
	Chinese	Yes
	English	Yes
	Russian	Yes

Image Acquisition	Continuous automatic exposure	Yes
	Manual exposure	Yes
	Color acquisition	Yes
	Gray-scale acquisition	Yes
	Manual Time-lapse	Yes
	White Balance	Auto/Manual
	Image enhancement	Yes
	Horizontal Flip	Yes
	Verical Flip	Yes

Image Processing	Grids	Yes

Measurements	Still image measurement	Yes
	Select measurement unit	Yes
	Available measurements	
	Line	Yes