



FAVS
Scientific Equipment

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*4K C-mount Microscope Camera with
Integrated 15.6" 4K Monitor*

Camera General specifications

SD Card Still image capture	Yes
SD Card Video recording	Yes
USB output	Yes
HDMI output	Yes
C-Mount	Yes
Dimensions (mm)	65 x 78 x 88
Weight (kg)	0.5

Sensor

Camera resolution (n° of pixels: W x H)	3840 x 2160
Color / Monochrome	Color
Sensor Size	1/1.8"
Sensor Technology	CMOS
Sensor Type	SONY
Image Format	16/9
Pixel Size (mm)	2.0x2.0
Acquisition technology	Rolling shutter
Dynamic range (DB)	66
G sensitivity	505mV at 1/30s
Dark Signal	0.13mV at 1/30s
ADC conversion	8 Bit - 12Bit
Color Depth	1, 4, 8, 24 Bit
Exposure time	0.04 msec- 2 sec
Binning	1x1
IR filter	Yes
IR filter range (nm)**	380-650 (IR CUT)

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

USB

PC Camera resolution (MP)	8
USB standard	USB2.0
Frame rate full resolution (fps)	20@3840x2160

HDMI

HDMI resolution (MP)	8
Frame rate full resolution (fps)	30@3840x2160
Live HDMI measurement	Yes
Exposure	Auto / Manual
White Balance	Auto / Manual / ROI

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	12 Vdc, 1500 mA
	LED indicator	Yes

Camera accessories	Calibration slide	Yes
	USB cable (1.8m)	Yes
	HDMI cable (1.5m)	Yes
	Wireless Mouse	Yes
	SD card	16GB

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 7
	OS	Windows 8
	OS	Windows 10 (32Bit)
	OS	Windows 10 (64Bit)
	OS	Windows 11

Available Software	PC SW	PROVIEW
	Camera SW	HDMIPRO (built-in)

PC requirements	PC	CPU: Intel Core2 - 2.8GHz or higher
	PC	RAM: 2GB or more
	PC	USB 2.0

HDMI Monitor	Display size	15.6"
	Display resolution	3840x2160
	Contrast ratio	1000:1
	Luminous flux (lumen)	350
	Power plug type	European
	Input voltage	110/240 Vac, 50/60 Hz
	Output voltage	5 Vdc 4 A
	Input ports	Micro USB, Type-C (x2), Mini HDMI
	Output ports	Earphones
	Dimensions (mm)	356 x 225 x 12
Weight (Kg)	0.8	

Built-in SW Specifications		
General		
Archiving	Yes	
Multi-language menu	Yes	
Available languages		
Chinese	Yes	
English	Yes	
French	Yes	
German	Yes	
Italian	Yes	
Japanese	Yes	
Korean	Yes	
Russian	Yes	
Thai	Yes	

Image Acquisition	Still image multiple format saving	Yes
	Video recording multiple format saving	Yes
	Continuous automatic exposure	Yes
	Manual exposure	Yes
	Color acquisition	Yes
	Gray-scale acquisition	Yes
	Numerical Focus Indicator	Yes
	White Balance	Auto/Manual/ROI
	Image enhancement	Yes
	Zoom in	Yes
	Zoom out	Yes
	Image Comparison	Yes
	Browse of Images and Video	Yes
	Freeze image	Yes
	Horizontal Flip	Yes
	Vertical Flip	Yes

Image Processing	HDR (High Dynamic Range)	Yes
	Text Overlay	Yes
	Ruler Overlay	Yes
	Arrow Overlay	Yes
	Measurement Overlay	Yes
	Grids	Yes

Measurements	Live measurement	Yes
	Still image measurement	Yes
	Select measurement unit	Yes
	Available measurements	
	Point	Yes
	Line	Yes
	3 Points Line	Yes
	3 Points Vertical Line	Yes
	Angle	Yes
	4 Points Angle	Yes
	Parallel lines	Yes
	Rectangle	Yes
	3 Points Rectangle	Yes
	Ellipse	Yes
	5 Points Ellipse	Yes
	Circle (Center + Radius)	Yes
	Circle (3 Points)	Yes
	2 Circle (Center + Radius)	Yes
	2 Circle (3 Points)	Yes
	Annulus	Yes
	Annulus (3 Points)	Yes
	Curve	Yes
	Arc	Yes
	Polygon	Yes
	Export to Excel	Yes