China

CE, Rohs

A59.2243

5~20 Days

5000 pcs/ Month

1 pc

CNOEC, OPTO-EDU

FOB \$1~1000, Depend on Order Quantity

Carton Packing, For Export Transportation

OPTO-EDU A59.2243 8.0M 4K HDMI+USB+WIFI+LAN+SD Digital Microscope Camera

Basic Information

- Place of Origin:
- Brand Name:
- Certification:
- Model Number:
- Minimum Order Quantity:
- Price:
- Packaging Details:
- Delivery Time:
- Payment Terms: T/T, West Union, Paypal
- Supply Ability:

OPTO-EDU



Product Specification

- Applications:
- Certification:
- Output:
- Product Name:
- Senser:Compatible:

• Highlight:

CMOS Windows XP/Vista

Microscope

CE|Rohs HDMI

4K HDMI Microscope Camera, USB Microscope Camera, 8.0M Microscope Camera

Microscope Accessories

OPTO-EDU



Our Product Introduction





Our Product Introduction



A59.2243 4K HDMI+USB+WIFI+LAN+SD Digital Camera, 8.0M, Mouse Measure

A59.2243 camera is the next-generation live-view imaging-system with 4K resolution(Video) at 30 FPS. It comes with Sony Exmor CMOS sensor with high sensitivity, low dark current and no smear achieved through the adoption of R, G and B primary color mosaic filters.

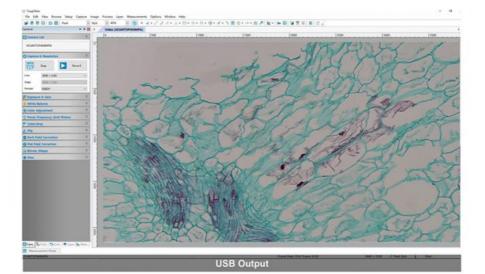
A59.2243 uses a standard C-mount interface for maximum compatibility with various microscopysystems. It can be used as a stand-alone recorder when used with an HDMI monitor or television, or livestreamed to a PC via NETWORK/USB for image-capture and video-recording.

Hardware 3D denoising, sharpness and tone mapping control functions greatly improve the image and video quality.

The included Windows software offers image-development and measurement tools, as well as advanced compositing features such as image-stitching and extended-depth-of-focus. With the ability to calibrate scales at multiple magnifications, the software can be used for multi-level inspection. For Mac and Linux, there is a lite version of the software which can capture video and still images, and includes limited processing features.

A59.2243 4K series camera is intended to be used for the acquisition of digital images from the stereo microscope, biological microscope or online interactive teaching.

A59.2243 Connections Image





A59.2243 Features & Sample Pictures



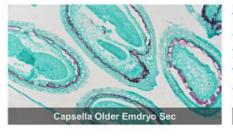
 4K HDMI+USB+WIFI+LAN+SD Card Digital Camera With Sony Exmor CMOS Sensors Resloution 8.0M

 4K/1080P Auto Switch According to Display Resolution, Save Image & Record Video to SD Card

 Built-in HDMI Mouse Control Panel For Image & Video Capture, Full Kinds of Measuring Function

 Optional WIFI Adapter On USB Port Enable HDMI/WiFi Output Simultaneously

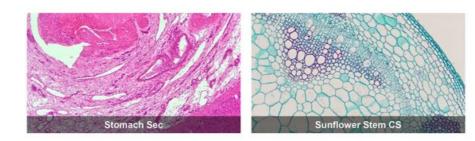
 Advanced Video & Image Processing Software Image View, Support SDK For Win/Linux/Mac/Android



Pear Sec Showing Stone Ceil



Simple Cuboidal Epithelium Sec



A59.2243 Specification



0)rder (Code	Sensor & Size(mm)	Pixel(iim)	G Sensitivity Dark Signal	FPS/Resolutio n	Binning	Exposure(ms)
4	K8MPA	Sony IMX334© 1/1.8" (7.68x4.32)	2 0x2 0	505mv with 1/30s 0.1mv with 1/30s	30@3840*2160 (HDMI) 30@3840*2160 (NETWORK) 30@3840*2160 (USB)	1x1	0.04~1000

	4K8MPB	IMX485(C) 1/1.2" (11.14x6.26)	2.9 x 2.9	2188mv with 1/30s 0.39mv with 1/30s	30@3840x2160 (HDMI) 30@3840x2160 (NETWORK) 30@3840x2160 (USB)	1x1	0.04~1000
	4K8MPC	Sony IMX678© 1/1.8" (7.68x4.32)	2.0x2.0	1364mv with 1/30s 0.15mv with 1/30s	30@3840*2160 (HDMI) 30@3840*2160 (NETWORK) 30@3840*2160 (USB)	1x1	0.04~1000
	4K8MPD	Sony IMX585(C)1/1.2 "(11.14x6.26)	2.9x2.9	1028mv with 1/30s 0.13mv with 1/30s	30@3840*2160 (HDMI) 30@3840*2160 (NETWORK) 30@3840*2160 (USB)	1x1	0.04~1000

Remark: C - Color, M-Monocolor, GS-GS Shutter

Connect USB mouse for easy operation on HDMI menu					
Connect USB flash drive to save pictures and videos					
Connect 5G WLAN module to transfer video wirelessly in real time					
Connect PC or other host device to realize video image transmission					
Comply with HDMI2.0 standard. 4K/1080P format video output and supporting auto switching between 4K and					
1080P format according to the connected display resolution					
Gigabit Ethernet port to connect to the peripheral for the video streaming					
Comply with SDIO3.0 standard and SD card could be inserted for the images or videos storage					
Power On/Off Switch					
Camera status indicator					
Power adapter connection (12V/1A)					
VIDEO OUTPUT INTERFACE					
Comply with HDMI1.4 standard, 30fps@4K or 30fps@1080P					
support real time resolution switching(4K/1080P/720P)					
H264 encoded video					
DHCP configuration or manual configuration					
Unicast/multicast configuration					
Connecting 5G WLAN adapter (USB2.0 slot) in AP/STA mode (WIFI Adapter Is Optional)					
Connecting USB Video port of PC for video transfer, MJPEG format video					
GE OUTPUT INTERFACE					
Video format:8M(3840*2160) H264/H265 encoded MP4 file					
Video saving frame rate:30fps					
8M (3840*2160) JPEG/TIFF image in SD card or USB flash drive					
Measurement information saved in different layer with image content					
Measurement information is saved together with image content in burn in mode					
Exposure(Automatic, Manual Exposure), Gain, White Balance(Manual, Automatic, ROI Mode), Sharpening, 3D					
Denoise, Saturation Adjustment, Contrast Adjustment, Brightness Adjustment, Gamma Adjustment, Color to					
Gray, 50HZ/60HZ Anti-flicker Function					
Zoom In/Zoom Out(Up to 10X), Mirror/Flip, Freeze, Cross Line, Compare(Comparison between real time video					
and images in SD card or USB flash drive), Embedded Files Browser, Video Playback, Measurement Function					
To support accurate time on board (Optional)					
Restore camera parameters to its factory status					
English, Simplified Chinese, Traditional Chinese, Korean, Thailand, French, German, Japanese, Italian, Russiar					
SOFTWARE ENVIRONMENT UNDER LAN/WLAN/USB VIDEO OUTPUT					
Auto White Balance					
Ultra-Fine Color Engine					
Win/Linux/macOS/Android Multiple Platform SDK(Native C/C++, C#/VB.NET, Python, Java, DirectShow, Twain					
etc)					
Still Picture or Movie					
Microsoft® Windows® XP, Vista, 7, 8, 8.1 /10 /11(32 & 64 bit)					
OSx(Mac OS X)					
Linux					
CPU: Equal to Intel Core2 2.8GHz or Higher					
Memory: 4GB or More					
Display:19" or Larger					

OPERATING ENVIRONMENT

Operating Temperature -10 °C~ 50 °C Storage Temperature **Operating Humidity** Storage Humidity Power Supply

-20 °C~ 60 °C 30~80%RH 10~60%RH DC 12V/2A Adaptor

Dimension of A59.2243 Series Camera

A59.2243 Camera body, made from tough, CNC aluminium alloy, ensures a heavy duty, workhorse solution. The camera is designed with a high quality IR-CUT to protect the camera sensor. No moving parts included. This design ensures a rugged, robust solution with an increased lifespan when compared to other industrial camera solutions.



A59.2243 Packing List



Packing List of A59.2243 Series Camera						
Standard Outfit						
А	Gift box : L:25.5cm W:17.0cm H:9.0cm (1pcs, 1.57Kg/ box)					
В	Digital camera					
	Power Adaptor: Input: AC 100~240V 50Hz/60Hz, Output: DC 12V 1A					
	American standard: Model: GS12U12-P1I 12W/12V/1A: UL/CUL/BSMI/CB/FCCEMI Standard:EN55022,EN61204-3, EN61000-3-2,-3, FCC Part 152 class B, BSMI CNS14338CEMS Standard:EN61000-4-2,3,4,5,6,8,11,EN61204-3,Class A Light Industry Standard					
С						
EMI Standard:EN55022,EN61204-3, EN61000-3-2,-3, FCC Part 152 class B, BSMI CNS1433						
	EMS Standard:EN61000-4-2,3,4,5,6,8,11,EN61204-3,Class A Light Industry Standard					
D	USB Mouse					
E	HDMI Cable					
F	USB2.0 A male to A m	ale gold-plated	connectors cable /2.0m			
G	CD (Driver & utilities s	oftware, Ø12cm)				
			al Accessory			
н	SD Card(16G or above	e; Speed: class	,			
		For	0.37x, C-Mount to Dia.23.2mm	A55.2202-A37		
	Focus Adjustable Eyepiece Adapter	Microscope	0.50x, C-Mount to Dia.23.2mm	A55.2202-A50		
1			0.75x, C-Mount to Dia.23.2mm	A55.2202-A75		
-		For	0.37x, C-Mount to Dia.31.75mm	A55.2204-A37		
		Telescope	0.50x, C-Mount to Dia.31.75mm	A55.2204-A50		
		releacope	0.75x, C-Mount to Dia.31.75mm	A55.2204-A75		
		For	0.37x, C-Mount to Dia.23.2mm	A55.2202-F37		
		Microscope	0.50x, C-Mount to Dia.23.2mm	A55.2202-F50		
J	Focus Fixed	Microscope	0.75x, C-Mount to Dia.23.2mm	A55.2202-F75		
J	Eyepiece Adapter	_	0.37x, C-Mount to Dia.31.75mm	A55.2204-F37		
		For	0.50x, C-Mount to Dia.31.75mm	A55.2204-F50		
		Telescope	0.75x, C-Mount to Dia.31.75mm	A55.2204-F75		
к	K Adaptor Rings Dia.23.2mm to 30.0mm For 30.0mm Microscope Eyepiece Tube			A55.2203-30		
L						
		X=0.01mm/1	X=0.01mm/100Div.			
Calibration X,Y=0.01mm/100Div						

