



OPTO EDU A59.2210 USB3.0 CMOS Digital Microscope Camera

Basic Information

- Place of Origin: China
- Brand Name: CNOEC, OPTO-EDU
- Certification: CE, Rohs
- Model Number: A59.2210
- Minimum Order Quantity: 1 pc
- Price: FOB \$1~1000, Depend on Order Quantity
- Packaging Details: Carton Packing, For Export Transportation
- Delivery Time: 5~20 Days
- Payment Terms: T/T, West Union, Paypal
- Supply Ability: 5000 pcs/ Month

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Product Specification

- Applications: Microscope
- Certification: CE|Rohs
- Output: USB 3.0
- Product Name: Microscope Accessories
- Resolution: 10M Pixels
- Sensor: CMOS
- Spectral Range: 380-650nm (with IR-filter), For Monochromatic Camera, AR Is Used
- Recording System: Still Picture And Movie
- Highlight: CMOS Digital Microscope Camera, OPTO EDU CMOS Digital Microscope Camera, USB3.0 CMOS Digital Microscope Camera

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Product Description



A59.2210 Features

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A59.2210
USB3.0 Sony or OnSemi CMOS
Digital Camera, 3.5M~12M

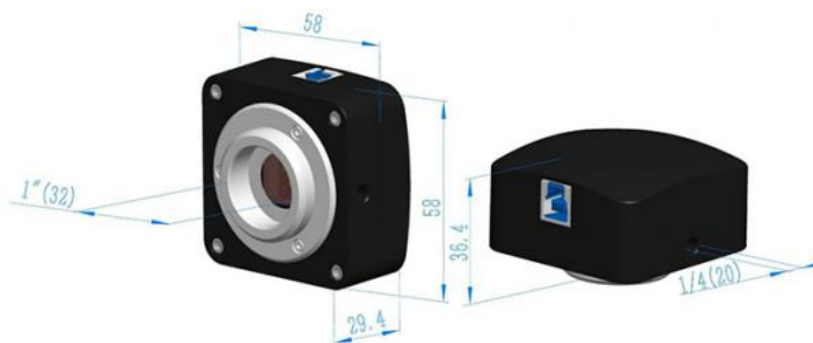

ToupTek A59.2210 Microscope Camera is compact & high performance USB3.0 CMOS Camera and it adopts Sony or OnSemi CMOS sensor as the image-picking device and USB3.0 is used as the data transfer interface.

A59.2210 hardware resolutions range from 3.5MP to 12MP and come with the compact CNC aluminum alloy housing.

A59.2210 comes with advanced video & image processing application ToupView; Providing Windows/Linux/macOS/Android multiple platform SDK(Native C/C++, C#/VB.NET, Python, Java, DirectShow, Twain, etc.);

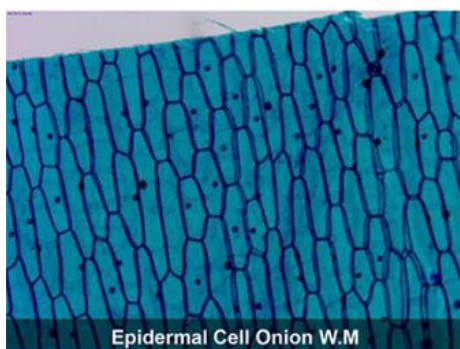
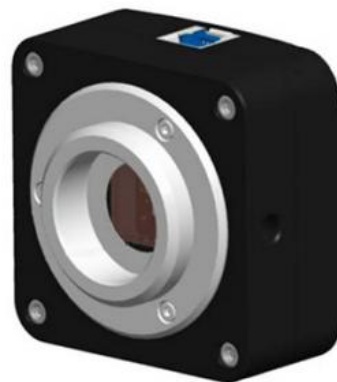
The A59.2210 can be widely used in brightfield light environment and microscope image capture and analysis with higher frame rate.

Order Code	Sensor & Size	Pixel(μm)	G Responsivity Dynamic range SNRmax	FPS/Resolution	Binning	Exposure
12MPA	12M/IMX577© 1/2.1" (5.95x4.71)	1.55x1.55	250mv with 1/30s 0.25mv with 1/30s	7.5@3840x3040 43@1920x1516 122@960x758	1x1 2x2 4x4	0.1ms~2000ms
10MPA	10M/IMX577© 1/2.3" (5.68x4.26)	1.55x1.55	250mv with 1/30s 0.25mv with 1/30s	8.5@3664x2748 49@1832x1374 137@912x686	1x1 2x2 4x4	0.1ms~2000ms
5.1MPA	5.1M/AR0521© 1/2.5" (5.70x4.28)	2.2x2.2	18.8ke-/lux 73dB 40dB	15.5@2592x1944 49.5@1296x972 97.5@648x486	1x1 2x2 4x4	0.1ms~2000ms
5.1MPB	5.1M/IMX335© 1/2.8" (5.18x3.89)	2.0x2.0	505mV 70dB 43dB	25@2592x1944 40@1296x972	1x1 2x2	0.1ms~2000ms
4.1MPA	4.1M/IMX347© 1/1.8" (7.795x4.408)	2.9x2.9	2376mv with 1/30s 0.15mv with 1/30s	20@2688x1536 30@2048x1536 40@1536x1536 100@1344x768	1x1 1x1 1x1 1x1	0.1ms~5000ms
3.5MPA	3.5M/SC4236© 1/2.6" (5.76x3.84)	2.5x2.5	3.0v/lux-sec 72dB 37dB	30@2304x1536 30@1152x768	1x1 2x2	0.1ms~2000ms



Other Specification	
Spectral Range	380-650nm (with IR-cut Filter)
White Balance	ROI White Balance/ Manual Temp Tint Adjustment/NA for Monochromatic Sensor
Color Technique	Ultra-Fine Color Engine/NA for Monochromatic Sensor
Capture/Control SDK	Windows/Linux/macOS/Android Multiple Platform SDK(Native C/C++, C#/VB.NET, Python, Java, DirectShow, Twain, etc)
ADC	8 Bit
Recording System	Still Picture and Movie
Cooling System*	Natural
Operating Environment	
Operating Temperature(in Centidegree)	-10~ 50
Storage Temperature(in Centidegree)	-20~ 60
Operating Humidity	30~80%RH
Storage Humidity	10~60%RH
Power Supply	DC 5V over PC USB Port
Software Environment	
Operating System	Microsoft® Windows® XP / Vista / 7 / 8 /10 /11 (32 & 64 bit) OSx(Mac OS X) Linux
PC Requirements	CPU: Equal to Intel Core2 2.8GHz or Higher Memory:2GB or More USB Port: USB3.0 High-speed Port Display:17" or Larger CD-ROM

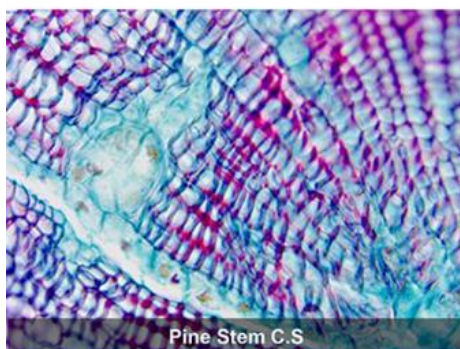
- Standard C-Mount Camera with Sony or OnSemi CMOS sensor;
- With hardware resolution among 3.5M to 12M;
- Compact CNC aluminum alloy housing;
- USB3.0 5Gbps interface ensuring high speed data transmission;
- Ultra-Fine color engine with perfect color reproduction capability;
- With advanced video & image processing application ToupView;
- Windows/Linux/macOS/Android multiple platform SDK;



Epidermal Cell Onion W.M



Fish Squama



Pine Stem C.S



Squamous Epithelial from Human Mouth Scrapings

A59.2210 Packing List



Standard Camera Packing List

A	Carton L:52cm W:32cm H:33cm (20pcs, 12~17Kg/ carton), not shown in the photo
B	Gift box L:15cm W:15cm H:10cm (0.67~0.7Kg/ box)
C	One C3CMOS series camera
D	High-speed USB3.0 A male to B male gold-plated connectors cable /2.0m

E	CD (Driver & utilities software, Ø12cm)		
Optional Accessory			
F	Adjustable lens adapter	C-mount to Dia.23.2mm eyepiece tube (Please choose 1 of them for your microscope)	108001/AMA037
			108002/AMA050
			108003/AMA075
		C-mount to Dia.31.75mm eyepiece tube (Please choose 1 of them for your telescope)	108008/ATA037
			108009/ATA050
			108010/ATA075
G	Fixed lens adapter	C-mount to Dia.23.2mm eyepiece tube (Please choose 1 of them for your microscope)	108005/FMA037
			108006/FMA050
			108007/FMA075
		C-Mount to Dia.31.75mm eyepiece tube (Please choose 1 of them for your telescope)	108011/FTA037
			108012/FTA050
			108013/FTA075
Note: For F and G optional items, please specify your Camera type(C-mount, microscope camera or telescope camera) , ToupTek engineer will help you to determine the right microscope or telescope camera adapter for your application;			
H	108015(Dia.23.2mm to 30.0mm ring)/Adapter rings for 30mm eyepiece tube		
I	108016(Dia.23.2mm to 30.5mm ring)/ Adapter rings for 30.5mm eyepiece tube		
J	108017(Dia.23.2mm to 31.75mm Ring)/ Adapter rings for 31.75mm eyepiece tube		
K	Calibration kit	106011/TS-M1(X=0.01mm/100Div.);	
		106012/TS-M2(X,Y=0.01mm/100Div.);	
		106013/TS-M7(X=0.01mm/100Div., 0.10mm/100Div.)	

Camera Connect To Microscope

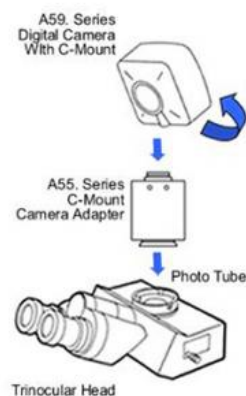
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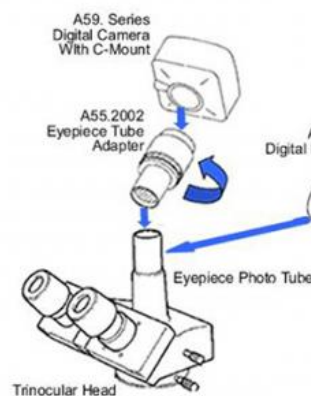
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How Camera Connect To Microscope

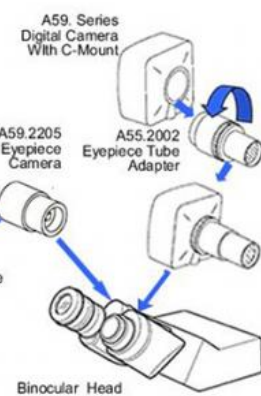
1. To Trinocular Microscope On Straight Photo Tube



2. To Trinocular Microscope On Eyepiece Photo Tube



3. To Binocular Microscope On Eyepiece Tube





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