Microscope Accessories Eyepiece Camera For Microscope A59.2207

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: CNOEC, OPTO-EDU
- Certification: CE, Rohs
- Model Number: A59.2207
- 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

Product Specification

- Applications: Microscope
- Certification: CE, Rohs
- Output: USB 2.0
- Product Name: Microscope Accessories
- Senser: CMOS
- Compatible: Windows XP/Vista
- Highlight: **microscope accessory**, **parts of the microscope**

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Our Product Introduction

Product Description

Description:

--Capturing from 350K to 14M (4384x3288) pixel high quality still images
--Streaming real-time, ultra-fast, full-resolution live video on your PC screen
--High speed USB 2.0, compact design
--Fitting 4 mounting sizes: 23mm, 30mm, 30.5mm, and C-mount
--Advanced editing, processing, and measuring software
--Compatible with Windows XP/Vista/7 (32 & 64 bits)
--CE, UL, FC.. all certificate passed

A59.2207 Digital Camera, Eyepiece Type

Our latest generation of cameras features upgraded electronics, streamlined software, and a compact design with smaller dimensions and reduced weight.
Featuring built-in C-mount compatibility and 23mm reduction lens adapter, our camera can be attached to any instrument with a C-mount or a 23mm photo port, including microscopes, telescopes, endoscopes, and etc. The camera's optics offers max 4384*3288 pixel resolution, and the included software allows you to capture real-time, high-definition videos and stills without requiring any additional equipment.
The included user-friendly software allows you to make notes, shapes, watermarks, and measurements with ease. You can analyze, present, and share images of samples and specimen by simply plugging one end into your PC's USB 2.0 port, and the other on your microscope's eye-tube or trinocular port.
In addition, the newest generation of camera comes with a preassembled 0.5X reduction lens named as Eyepiece Tube, giving your PC screen the same field of view as your microscope's eyepiece. With the reduction lens in place, your camera tube is 23mm in diameter, making it compatible with pretty much any microscope's eyetube or trinocular port!
We also include 2 eyepiece adapters for FREE - 30.0mm and 30.5mm.
With its unique stand alone design, the MU series camera is equipped with CMOS color sensor, and comes with a high-speed USB 2.0 cord, advanced software (Windows XP/Vista/7 compatible), 4 mounting sizes (23mm, 30mm, 30.5mm, and C-mount), and instructions.

Specifications:

Pixel	**350K**	**1.3M**	**2.0M**	**3.2M**	**5.2M**
Senser Size	**1/4.0" CMOS**	**1/3.0" CMOS**	**1/2.3" CMOS**	**1/2.0" CMOS**	**1/2.5" CMOS**
Senser Size	3.58mm(H) x 2.69mm(V), Diagonal 4.48mm	4.60mm(H) x 3.70mm(V), Diagonal 5.9mm		6.55mm(H) x 4.92mm(V), Diagonal 8.19mm	5.70mm(H) x 4.28mm(V), Diagonal 7.13mm
Senser	Aptina **CMOS** (Color, Anti-blooming Protection)				
Output	USB2.0				
Max.Resolution	640*480	1280*1024	1600*1200	2048/*1536	2592*1944
Pixel Size	5.6 x 5.6um	3.6 x 3.6µm	2.8 x 2.8µm	3.2 x 3.2µm	2.2 x 2.2µm
Responsivity	1.9v/lux-sec(550nm)	1.0v/lux-sec(550nm)		1.0v/lux-sec(550nm)	0.53v/lux-sec(550nm)
Video Mode Format & Frame Rate	640*480/30fps 320*240/80fps	1280*1024/15fps 640*512/26fps 320*256/50fps	1600*1200/8fps 800*600/18fps	2048*1536/10fps 1024*768/22fps 680*510/43fps	2592*1944/ 5fps 1280*960/18fps 640*480/60fps
Imaging Area	3.58mm(H) x 2.69mm(V)	4.6mm(H) x 3.7mm(V)	4.73mm(H) x 3.52mm(V)	6.55mm(H) x 4.92mm(V)	5.70mm(H) x 4.28mm(V)
Dynamic Range	60dB	71dB	71dB	61dB	66.5dB
A/D Converter	10-bit Parallel, 8-bit R.G.B to PC	10-bit, 8-Bit R.G.B to PC		10-bit, 8-Bit R.G.B to PC	12-bit, 8-Bit R.G.B to PC
SN Ratio	45dB	44dB		43dB	40.5dB
Binning	1*1, 2*2	1*1, 2*2, 4*4		1*1, 2*2, 3*3	1*1, 2*2, 4*4
Exposure	0.11~192.46ms	0.140~2000ms		0.128~2000ms	0.21~2000ms

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Pixel	8.0M	9.0M	10M	14M
Senser Size	**1/2.5" CMOS**	**1/2.3" CMOS**	**1/2.3" CMOS**	**1/2.3" CMOS**
Senser Size	5.451mm(H) x 4.088mm(V), Diagonal 6.813mm	5.825mm(H) x 4.369mm(V), Diagonal 7.281mm	6.119mm(H) x 4.589mm(V), Diagonal 7.649mm	6.138mm(H) x 4.603mm(V), Diagonal 7.672mm
Senser	Aptina **CMOS** (Color, Anti-blooming Protection)			
Output	USB2.0			
Max.Resolution	3264*2448	3488*2616	3664*2748	4384*3288
Pixel Size	1.67 x 1.67µm	1.75 x 1.75µm	1.67 x 1.67µm	1.4 x 1.4µm
Responsivity	0.31v/lux-sec(550nm)	0.33v/lux-sec(550nm)	0.31v/lux-sec(550nm)	0.724v/lux-sec(550nm)
Video Mode Format & Frame Rate	3264*2448/1.9fps 1600*1200/8fps 800*600/27fps	3488*2616/2fps 1744*1308/9fps 872*654/27fps	3664*2748/2fps 1832*1374/ 8fps 912*684/27fps	4384*3288/2fps
Imaging Area	5.71mm(H) x 4.28mm(V)	6.10mm(H) x 4.58mm(V)	6.12mm(H) x 4.60mm(V)	6.13mm(H) x 4.60mm(V)
Dynamic Range	65.2dB	62.7dB	65.2dB	65.3dB
A/D Converter	12-bit, 8-Bit R.G.B to PC			
SN Ratio	34dB			35.5dB
Binning	1 x 1, 2 x 2, 4 x 4			
Exposure	0.38~2000ms			0.4~2000ms

Pixel	C800K	C1.4MA	C1.4MB	C2.0M	C3.2M
Senser Size	**1/3.0" CCD**	**1/2.0" CCD**	**2/3.0"CCD**	**1/1.8" CCD**	**1/1.8" CCD**
Senser Size	5.80mm(H) x 4.92mm(V), Diagonal 5.952mm	7.60mm(H) x 6.20mm(V), Diagonal 7.959mm	10.2mm(H) x 8.3mm(V), Diagonal 11mm	8.50mm(H) x 6.80mm(V), Diagonal 8.923mm	8.10mm(H) x 6.64mm(V), Diagonal 8.933mm
Senser	Aptina **CCD** (Color, Anti-blooming Protection)				
Output	USB2.0				
Max.Resolution	1024*768	1360*1024	1360*1024	1600*1200	2048*1536
Pixel Size	4.65 x 4.65um	4.65 x 4.65µm	6.45 x 6.45µm	4.4 x 4.4µm	3.45 x 3.45µm
Video Mode Format & Frame Rate	1024*768 /16fps	1360*1024 /12fps	1360*1024 /15fps	1600*1200 /10fps	2048*1536 /6fps
Dynamic Range	70dB				
G Sensitivity	400mV with 1/30s Accumulation		1240mV with 1/30s Accumulation	420mV with 1/30s Accumulation	455mV with 1/30s Accumulation
A/D Converter	12-bit Parallel, 8-bit R.G.B to PC				
SN Ratio	62dB				
Binning	1 x 1				1 x 1,1 x 2
Exposure	Normal: 0.16~62.00ms Long Exposure: 62.98ms~4mins	Normal: 0.22~119.37ms Long Exposure: 119.37ms~4mins	Normal: 0.126~66.695ms Long Exposure: 66.695ms~4mins	Normal: 0.17~100.00ms Long Exposure: 100.00ms~4mins	Normal: 0.18~77.81ms @2048 x 1536, 0.18~23.10ms @640 x 480. Long Exposure: 77.81ms~4mins

General Specification	
Scan Mode	Progressive
Spectral Range	400-650nm (with IR-Filter) 380-1000nm (w/o IR-Filter)
Exposure	Electronic Rolling Snap(ERS),ROI Auto & Manual,
White balance	One Push ROI White Balance/ Manual Temp-Tint Adjustment
Driver Interfaces	DirectShow , Twain
Operating System	Microsoft Windows XP / Vista / 7 (32 & 64 bit) CPU: Intel Pentium 4, 2.6G or above RAM: 512 MB HDD: 10 GB USB: USB2.0 interface
Operating Temp.	-10~60
Operating Humidity	30%~80%
Power Supply	DC 5V from PC USB port
Package Box	140mmx140mmx80mm, 0.5Kgs
Color Rendering Technique	Ultra FineTM Color Engine
Capture Mode	Still Picture and Video
Remarks	Actual frame rates on your computer depend on the hardware and operating system used

Software Features	
Main Functions	Viewing live images; Streaming & recording live videos; Capturing & saving still images; Making measurements
Processing	-Edits images in a similar manner to PhotoShop -Captures images, records videos and saves in JPG, TIF, GIF, PSD, WMF, and BMP formats -Add layers, watermarks, mosaics, tiles -Adjust color balance, exposure, saturation, contrast, orientation -Change resolution, histogram, granulation, diffusion -Transform images via edge detection, digital image warping
Measurement	Measures length and angle; rectangular, elliptical and irregular areas; single, parallel and perpendicular lines
Notation	Adds notes, measurements, text, arrows, labels, and etc. using customizable text with different sizes and colors
Calibration	Makes measurements in microns, millimeters, centimeters, inches, feet, and etc. at all magnification settings with desired tolerances

Driver Characteristics	
White Balance	ROI auto white balance/temp-tint manual white balance
Black Level Calibration	Adaptive black level calibration
Stuck or Hot Pixel	Hardware remove technique
USB Controller Compatibility	Automatic detection of adaptation
Interfaces Supported	DirectShow/TWAIN
Operating System	Microsoft Windows XP / Vista / 7 (32 & 64 bit)

Package List
--One Digital Camera Eyepiece Type
--One Eyepiece Tube, With Built-in 0.5x Reducing Lens
--Two Ring Adaptors: Dia.30mm, Dia.30.5mm
--One 6' (1.8m) USB2.0 High-Speed Cable
--One CD with Software and User's Instructions

Pixels	**1.3M**	**3.1M**	**5.1M**	**8M**
Sensor Size	**1/2"CMOS**	**1/2"CMOS**	**1/2.2"CMOS**	**1/2.5"CMOS**
Pixcel Size	8umx8um	3.2umx3.2um	2.2umx2.2um	1.75umx1.75um
Max.Resolution	1280x1024	2048x1536	2592×1944	3264x2448
Frame Rate (depend on PC)	20fps @1280x1024	<11fps @2048x1536	<7fps @2592x1944	<1fps @3264x2448
Video Mode	1280x1024 / 640x480/ 320x240	2048x1536 / 1024x768/ 640x480/ 512x384	2592x1944 1280x960 800x600 640x480	3264x2448 1600x1200 1280x1768 640x480
Dynamic Range	65dB	75dB	75dB	75dB
Sensitivity	1.8v/lux-sec@550nm	1.5v/lux-sec@550nm	1.2v/lux-sec@550nm	1.3v/lux-sec@550nm
Pixels	**9M**			
Sensor Size	**1/2.3"CMOS**			
Pixcel Size	1.75umx1.75um			
Max.Resolution (Hardware)	3448x2616			
Frame Rate (depend on PC)	<1fps @3448x2616			
Video Mode	3488x2616 1600x1200 1280x1768 640x480			
Dynamic Range	75dB			
Sensitivity	1.4v/lux-sec@550nm			
Pixels	**2M**	**3.2M**	**5.6M**	
Sensor Size	**1/3"CCD**	**1/3"CCD**	**1/2"CCD**	
Pixel size	3.2umx3.2um	N/A	N/A	
Sensitivity	0.45 in condition 1, v/lux-sec@550nm			
Max Resolution (Hardware)	1600x1200	2048x1536	2720x2048	
Frame Rate (depend on PC)	<20frames/sec. @1600x1200	<15frames/sec at 2048x1536,	10 frames/sec @2720x2048	

Video Mode	1600x1200 1024x768 800x600 640x480	2048x1536 1024x768	2720x2048/ 1360x1024	
Dynamic Range	62dB	75dB	75dB	
White Balance	Automatic/avanced Manual			
Wave Length(nm)	400-650mm(IR-Cut added)			
Auto-exposure	Automatic/avanced Manual			
Exposure	ERS (Electronic Rolling snap)			
Image Output	USB 2.0, 480Mb/s			
Power Source	From USB 2.0 Port DC5V/1.5A			
Programmable Control	Image size,exposure time,brightness,gain,gamma correction,color, contrast,saturation			
Color	Max 1.64 million 24Bit Color			
Working Temperature	-30degree to 70 degree			
Data Output	RGB 24bit, direct show and Twain			
Operating System	Windows2000/ME/XP(SP2/SP3)/VISTA/2008 32Bit system			
Basic PC*	CPU equivalent to Inter Pentium4 2.0GHz or more			
	256MB RAM or more			
	1 Hi-speed USB2.0 Port			
	17" Monitor			
Software Disc	Driver Image Software Minisee **NOTE: Advaced Image processing software for option at extra cost**			
* Please use this Camera after confirming your PC specifications.				

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