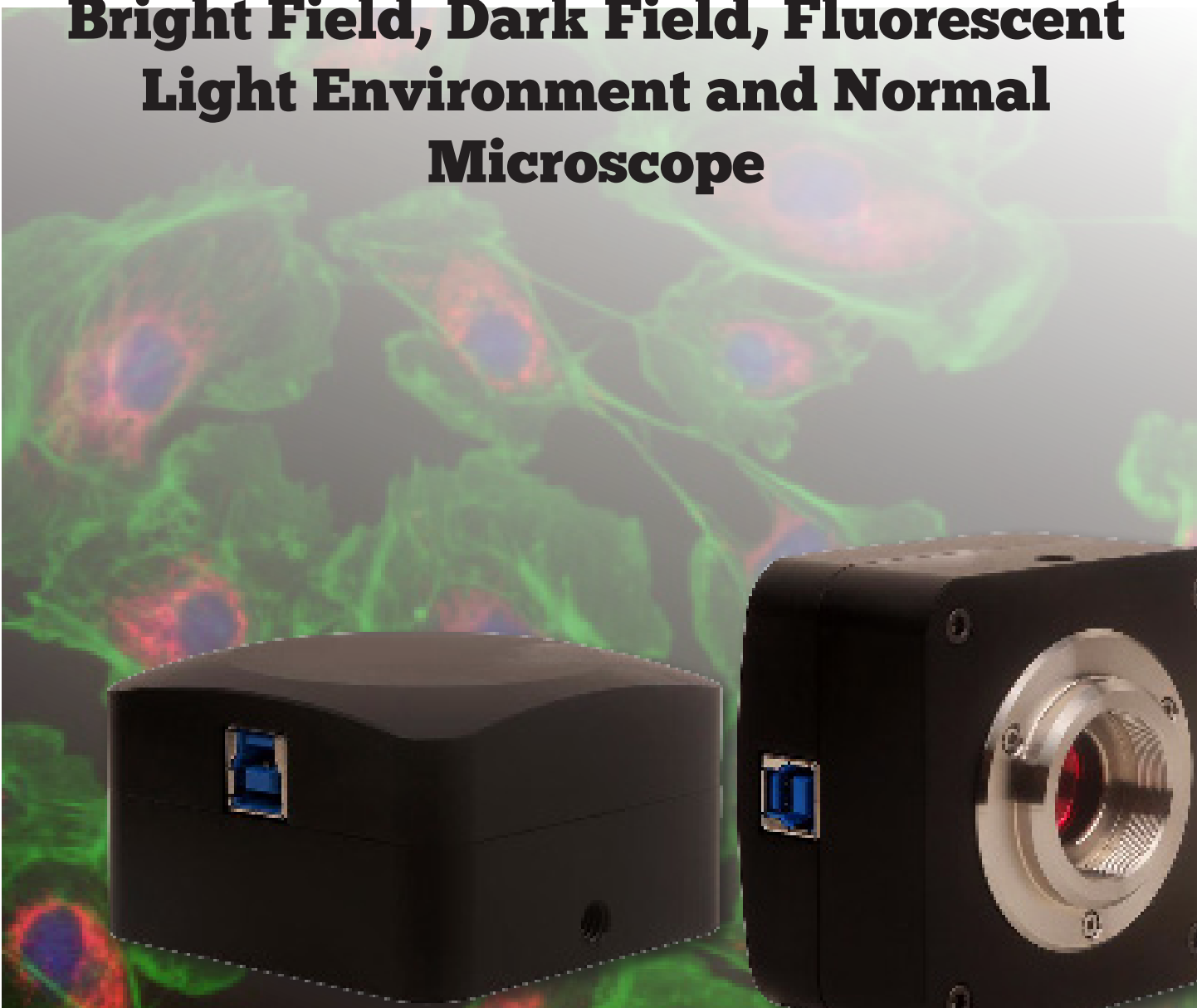




LC-32

**C-mount USB3.0 CMOS Camera for
Bright Field, Dark Field, Fluorescent
Light Environment and Normal
Microscope**



LC-32 C-mount USB3.0 CMOS Camera for Bright Field, Dark Field, Fluorescent Light Environment and Normal Microscope

LC-32 C-mount USB3.0 CMOS Camera adopts SONY Exmor CMOS sensor as the image-picking device and USB3.0 is used as the transfer interface.

LC-32 C-mount USB3.0 CMOS Camera hardware resolutions range from 8.3MP and come with the integrated CNC aluminum alloy compact housing.

LC-32 C-mount USB3.0 CMOS Camera is integrated with 12 bit Ultra-fine™ Hardware Image Signal Processor Video Pipeline(Ultra-fine™ HISPVP) for Demosaic, Adjustments, Automatic Exposition, Gain Adjustment, One Push White Balance, Chrominance Adjustment, Saturation Adjustment, Gamma Correction, Luminance Adjustment, Contrast Adjustment, Bayer and finally form RAW data for 8/12 bit out. This will move the heavy burden of the processing from the PC to the Ultra-fine™ HISPVP and greatly accelerating the processing speed.

LC-32 C-mount USB3.0 CMOS Camera come with advanced video & image processing application ImageView; Providing Windows/Linux/ OS X multiple platforms SDK; Native C/C++, C#/VB.NET, DirectShow, Twain Control API;

The LC-32 C-mount USB3.0 CMOS Camera can be widely used in bright field, dark field, fluorescent light environment and normal microscope image capture and analysis with higher frame rate.

FEATURES

The basic characteristic of LC-32 C-mount USB3.0 CMOS Camera can be summarized as follows:

1. SONY Exmor, Exmor R(Back-illuminated), Exmor RS CMOS sensor with USB3.0 interface;
2. Real-time 8/12bit depth switch(depending on sensor);
3. Ultra-fine™ HISP VP and USB3.0 5 Gbps interface ensuring high frame rates (Up to 17 frames for 21MP Resolution);
4. Super high sensitivity up to 2350mV(IMX385);
5. Ultra low noise and low power dissipation by using column-parallel A/D conversion;
6. With hardware resolution 8.3M;
7. Rolling Shutter or Global Shutter;
8. Standard C-Mount camera;
9. CNC aluminum alloy housing;
10. With advanced video & image processing application ImageView;
11. Providing Windows/Linux/Mac OS multiple platforms SDK;
12. Native C/C++, C#/VB.Net, DirectShow, Twain, LabView.



SPECIFICATIONS

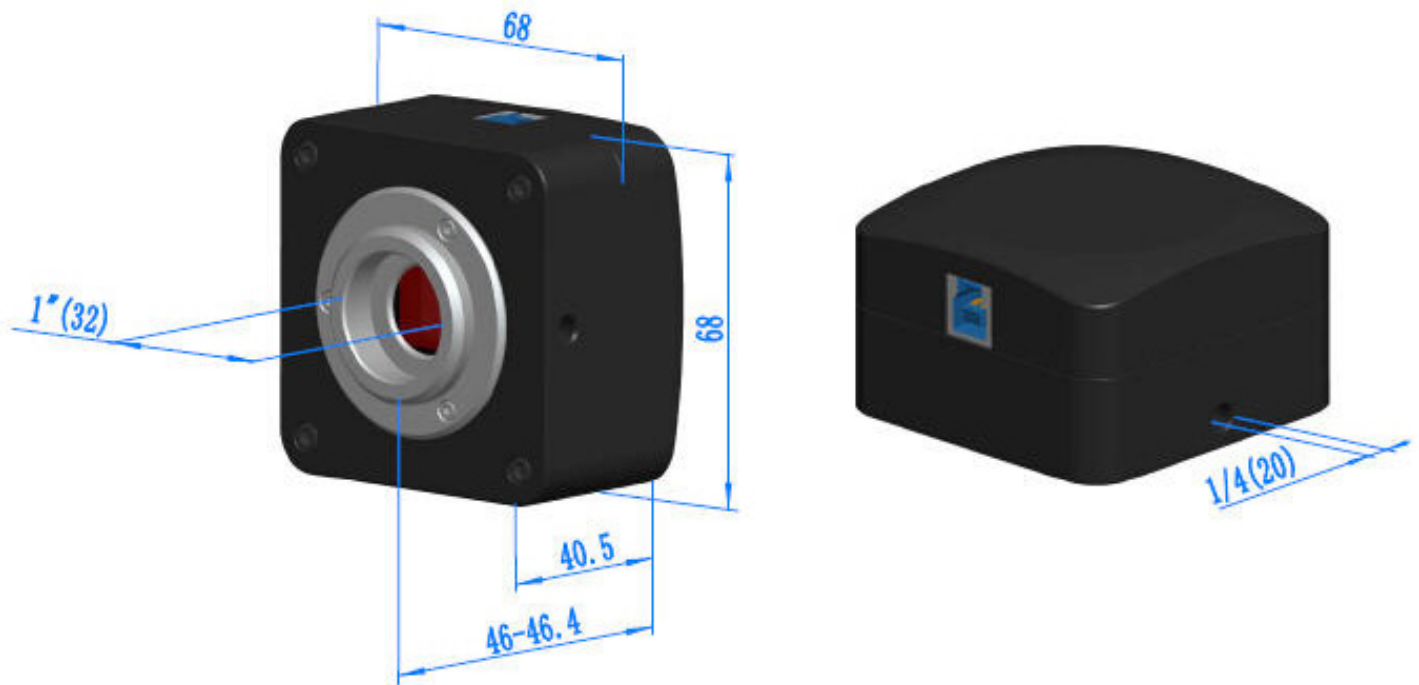
Model	LC-32
Sensor & Size(mm)	8.3M/IMX485(C)
	1/1.2”(11.14x6.26)
Pixel(μm)	2.9 x2.9
G Sensitivity	2188mv with 1/30s
Dark Signal	0.15mv with 1/30s
FPS/Resolution	45@3840x2160
	70@1920x1080
Binning	1x1
	2x2
Exposure	0.02ms~15s

Other Specification for LC-32	
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™ HISPVP /NA for Monochromatic Sensor
Capture/Control API	Native C/C++, C# /VB.Net., DirectShow, Twain and Labview
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 (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

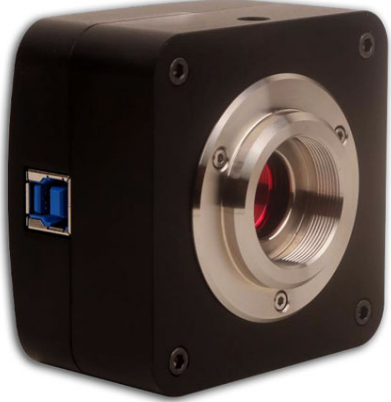




DIMENSION

The LC-32 C-mount USB3.0 CMOS Camera body, made from tough, CNC aluminum alloy, ensures a heavy duty, workhouse solution. The camera is designed with a high quality IR-CUT to protect the camera sensor. No moving parts included. These measures ensure a rugged, robust solution with an increased lifespan when compared to other industrial camera solutions.



Standard Package		
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 (0.58~0.6Kg/ box)	
C	LC-32 -USB3.0 C-mount CMOS 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)
		C-Mount to Dia.31.75mm eyepiece tube (Please choose 1 of them for your telescope)
G	Fixed lens Adapter	C-mount to Dia.23.2mm eyepiece tube (Please choose 1 of them for your microscope)
		C-mount to Dia.31.75mm eyepiece tube (Please choose 1 of them for your telescope)
Note: For F and G optional items, please specify your camera type(C-mount, microscope camera or telescope camera), our engineer will help you to determine the right microscope or telescope camera adapter for your application.		
H	(Dia.23.2mm to 30.0mm Ring)/Adaptor rings for 30mm eyepiece tube	
I	(Dia.23.2mm to 30.5mm Ring)/ Adaptor rings for 30.5mm eyepiece tube	
J	(Dia.23.2mm to 31.75mm Ring)/ Adaptor 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.)

Extension for LC-32 with Microscope or Telescope Adapter

Extension	Picture	
C-mount Camera	 <p data-bbox="898 247 1482 436">Machine vision; Medical imaging; Semiconductor equipment; Test instruments; Document scanners; 2D barcode readers; Web camera and security video; Microscope imaging;</p>	
Microscope Camera	 <p data-bbox="492 909 816 940">E3ISP+AMAXXX(23.2mm Adapter)</p>  <p data-bbox="1044 909 1369 940">E3ISP+FMAXXX(23.2mm Adapter)</p>	
Telescope Camera	 <p data-bbox="492 1182 816 1213">E3ISP+ATAXXX(31.75mm Adapter)</p>  <p data-bbox="1044 1182 1369 1213">E3ISP+FTAXXX(31.75mm Adapter)</p>	

SAMPLE IMAGES