

## FL CAM 5MP C-mount USB2.0 CMOS Camera

### 1.1 FL CAM 5MP Basic Characteristic

**FL CAM 5MP** adopt SONY Exmor CMOS sensor as the image-picking device and USB2.0 is used as the datatransfer interface.

**FL CAM 5MP** hardware resolution 5M and come with the integrated CNC aluminum alloy compact housing.

**FL CAM 5MP** comes with advanced video & image processing application ToupView; Providing Windows/Linux/ OSX multiple platforms SDK; Native C/C++, C#/VB.NET, DirectShow, Twain Control API;

**The FL CAM 5MP** can be widely used in bright field light environment and microscope image capture and analysis with higher frame rate.

The basic characteristic of FL CAM 5MP cameras are as follows:

- ★ SONY Exmor, Exmor R(Back-illuminated), Exmor RS CMOS sensor with USB2.0 interface;
- ★ Real-time 8/12/14/16bit depth switch (depending on sensor);
- ★ Super high sensitivity up to 2040mV(IMX224);
- ★ Ultra-low noise and low power dissipation by using column-parallel A/D conversion;
- ★ With hardware resolution 5MP;
- ★ Rolling shutter;
- ★ Standard C-Mount camera;
- ★ CNC aluminum alloy housing;
- ★ USB2.0 interface ensuring high speed data transmission;
- ★ With advanced video & image processing application ToupView;
- ★ Providing Windows/Linux/Mac OS multiple platforms SDK;
- ★ Native C/C++, C#/VB.Net, DirectShow, Twain;



## 1.2 Datasheet

FL CAM 5MP	5.3M/IMX178(C) 1/1.9" (7.37x4.15)	2.4x2.4	425mv with 1/30s 0.15mv with 1/30s	5.5@3072 x1728 35@1280x720	1x1, 2x2	0.105ms~15s
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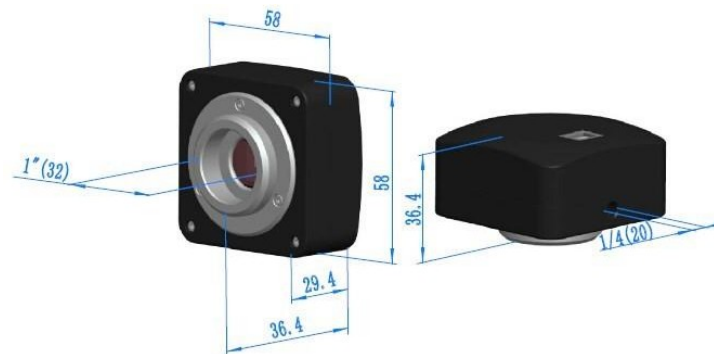
### C: Color - M: Monochrome

Other Specification for EC MOS Camera	
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)
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: USB2.0 Port
	Display: 17" or Larger
	CD-ROM

### 1.3 Dimension of FL CAM 5MP Series Camera

The **FL CAM 5MP** body, made from tough, CNC aluminum 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.

Dimension of FL CAM 5MP



### Packing Information for FL CAM 5MP Camera



Packing Information of FL CAM 5MP Camera

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 (0.5~0.55Kg/ box)
C	ECMOS series USB2.0 C-mount CMOS camera
D	High-speed USB2.0 A male to B male gold-plated connectors cable /2.0m
E	CD (Driver & utilities software, Ø12cm)