

MICAPS HPF3CMOS02300CB

SONY EXMOR CMOS Cameras



MICAPS HPF3SCMOS camera adopt SONY Exmor CMOS sensor as the image-picking device and USB3.0 is used as the data transfer interface. HPF3SCMOS camera's come with the integrated CNC aluminum alloy compact housing. HPF35CMOS camera use the latest Sony Exmor sensor which have the highest sensitivity and lowest noise with the help of 2 CDS(correlated double sampling) procedure. This feature guarantee that the E3CMOS camera is perfect for fluorescence microscope application, astronomy application and other dark field application, as well as the bright field application. E3CMOS camera can be used to replace the traditional CCD camera to some extent since its unique features, including high sensitivity, low noise, and group shutter (only some sensor has group shutter). Thanks to USB3.0, the frame rate is fast and 8bit, 12/14bit data transfer can be available and switchable

Features

- Sony Exmor back-illuminated CMOS sensor with USB3.0 interface
- Real-time 8/12/14/16bit depth switch (depending on sensor)
- Super high sensitivity up to 1120mV (IMX185)
- Super low noise and low power dissipation
- With advance Video & image processing application Micaps MicroView

Applications

- Scientific research, education (teaching, demonstration and academic exchanges)
- Digital laboratory, medical research
- Industrial visual (PCB examination, IC quality control)
- Medical treatment (pathological observation)
- Food (microbial colony observation and counting)
- Aerospace, military (high sophisticated weapons)

Order Code	Sensor & Size(mm)	Pixel(μm)	G Sensitivity Dark Signal	FPS/Resolution	Binning	Exposure
HPF3CMOS02300CB	2.36M/IMX185(c) 1/1.9"(7.2X4.5)	3.75X3.75	1120mv with 1/30s 0.5mv with 1/30s	45@1920x1200 90@960x600	1x1 2x2	0.244ms~2000ms

Software Environment Under Lan/wan/usb Video Output

Spectral Range	380-650nm (with IR-cut Filter)
White Balance	ROI White Balance / Manual Temp-Tint Adjustment
Color Technique	Super Fine Color Engine
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
Data Format	MJPEG
Cooling System*	Natural
Operating System	Microsoft® Windows® XP / Vista / 7 / 8 / 8.1 / 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 High-speed port, Display:17" or Larger, CD-ROM

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

LABLINK INSTRUMENTS

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