

E3IS Series C-mount USB3.0 CMOS Camera with Hardware ISP and Video Pipeline

E3ISPM adopt SONY Exmor CMOS sensor as the image-picking device and USB3.0 is used as the transfer interface. E3ISPM hardware resolutions range from 1.5M to 45M and come with the integrated CNC aluminum alloy compact housing.

E3ISPM integrated with 12 bit Ultra-fine Hardware Image Signal Processor Video Pipline(Ultra-fine TM Hardware ISP/Video Pipeline) 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 output. This will move the heavier burden of the processing from the PC to the Ultra-fineTM Hardware ISP/Video Pipeline and greatly accelerating the processing speed.

E3ISPM 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 E3ISPMcan be widely used in bright field light environment and microscope image capture and analysis with higher frame rate.

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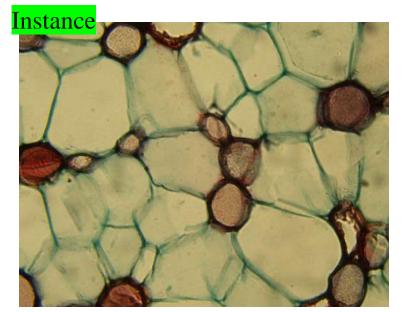
- SONY Exmor Back-illuminated CMOS sensor with USB3.0 interface;
- Real-time 8/12/14/16bit depth switch(depending on sensor);
- Super high sensitivity up to 2350mV(IMX385);
- Ultra low noise and low power dissipation;
- With hardware resolution among1.5M to 45M;
- Rolling Shutter or Global Shutter; Standard C-Mount camera; CNC aluminum alloy housing;
- With advanced video & image processing application ToupView;
- Ultra-fine Color hardware Color Enginne ensuring high frame rates(Up to 15 frames for 20M Resolution);
- Windows/Linux/macOS/Android multiple platform SDK;

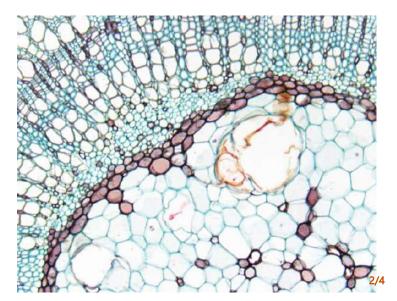
| Related M | lodels | Model in St | ock E3IS 18MP | | | |
|------------|---|-------------|--------------------------------------|--|-------------------|-----------|
| Order Code | Sensor & Size(mm) | Pixel(µm) | G Sensitivity Dark Signal | FPS/Resolution | Binning | Exposure |
| E3IS18MP | 18M/SONY Special(C) 1/2.2 "(5.86x4.46) | 1.2 x1.2 | 130mv with 1/30s 0.1mv with 1/30s | 17@4880x3720 40@2448x1836 50@1728x1296 | 1x1 2x2 3x3 | 0.1ms~15s |

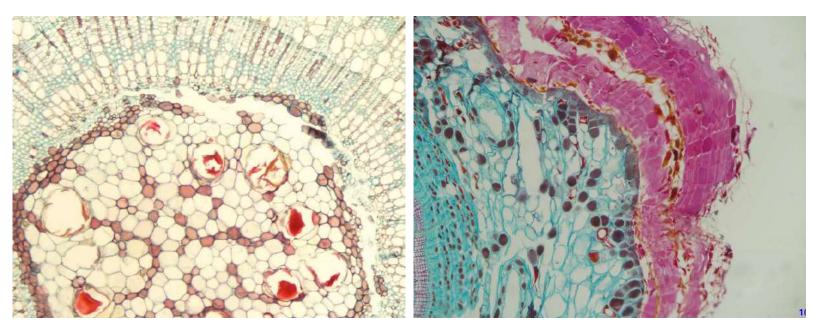
| specification | Other Specification | | | | |
|--|---|--|--|--|--|
| Spectral Range | 380-650nm (with IR-cut Filter) | | | | |
| White Balance | ROI White Balance/ Manual Temp Tint Adjustment/NA for Monochromatic Sensor | | | | |
| Color Technique | Ultra-Fine HISPVP /NA for Monochromatic Sensor | | | | |
| Capture/Control SDK | Windows/Linux/macOS/Android Multiple Platform SDK(Native C/C++, C#/VB.NET, Python, Java, DirectShow, Twain, etc) | | | | |
| ADC | 8 Bit / 12 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 USB3.0 Port. Compatible with USB2.0 | | | | |
| | Software Environment | | | | |
| Operating System | Microsoft [®] Windows [®] XP / Vista / 7 / 8 /10 /11 (32 & 64 bit) OSx(Mac OS X) Linux | | | | |
| | CPU: Equal to Intel Core2 2.8GHz or Higher Memory: 2GB or More | | | | |
| PC Requirements | USB Port: USB3.0 High-speed Port | | | | |
| | Display: 17" or Larger | | | | |
| A 1* ,* | CD-ROM | | | | |

Applications

The E3ISPM series can be widely used in bright field light environment and microscope image capture and analysis with higher frame rate.









Packing Information of E3ISPM Series

| | | Standard Camera Packing List | | | | |
|----------------------|--|---|--|--|--|--|
| А | Carton L:52cm W:32cm H:33cm (20pcs, 12~17Kg/ carton), not shown in the photo | | | | | |
| В | Gift box L:15cm W:15cm H:10cm (0.58~0.6Kg/ box) | | | | | |
| С | One E3ISPM 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 108004/AMA100 | | | |
| | | C-mount to Dia.31.75mm eyepiece tube (Please choose 1 of them for your telescope) | 108008/ATA037 108009/ATA050 108010/ATA075 108011/ATA100 | | | |
| 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 108008/FMA100 | | | |
| | Fixed lens adapter | C-Mount to Dia.31.75mm eyepiece tube (Please choose 1 of them for your telescope) | 108011/FTA037 108012/FTA050 108013/FTA075 108014/FTA100 | | | |
| | | onal items, please specify your Camera type(C-mo er will help you to determine the right microscope for your application; | | | | |
| Н | 108015(Dia.23.2mm to 30.0mm ring)/Adapter rings for 30mm eyepiece tube | | | | | |
| Ι | 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 unde | | | | | |
| K | Calibration kit | 106011/TS-M1(X=0.01mm/100Div.); 106012/TS-M2(X,Y=0.01mm/100Div.); | | | | |



