

# SCOP PRO



- SONY Exmor, Exmor R (Back-illuminated), Exmor RS CMOS sensor with USB3.0 interface;
  - Real-time 8/12/14/16bit depth switch (depending on sensor);
  - Super high sensitivity up to 1120mV (IMX185);
  - Ultra-low noise and low power dissipation by using column-parallel A/D conversion;
  - With hardware resolution among 0.4M to 20M;
  - Rolling shutter or global shutter;
  - Standard C-Mount camera;
  - CNC aluminum alloy housing;
- USB3.0 5Gbps interface ensuring high frame rates;
  - With advanced video & image processing application ToupView/ToupLite;
  - Providing Windows/Linux/Mac OS multiple platforms SDK;
  - Native C/C++, C#/VB.Net, DirectShow, Twain, LabView

## E3CMOS12400KMA

**Sensor & Size:** 12.4M/IMX545(M, GS) - 1/1.1 " (11.22x8.22)

**Pixel ( $\mu\text{m}$ ):** 2,74 x 2,74

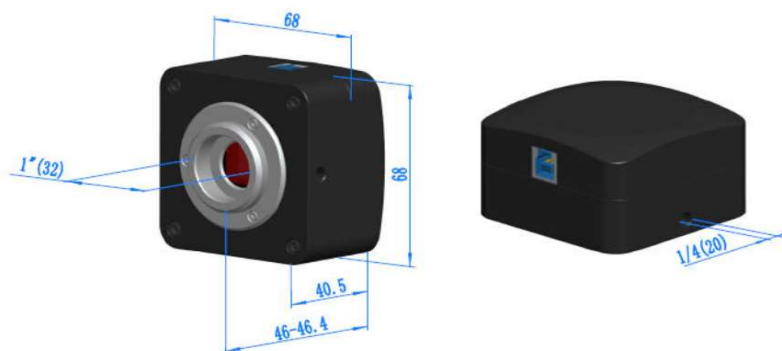
**G Sensitivity – Dark signal:** 2252mV with 1/30s – 0,15mV with 1/30s

**FPS/Resolution – ADC:** 28.2@4096x3000 / 100.9@2048x1500 / 100.9@1024x750

**Binning:** 1x1 / 2x2 / 4x4

**Exposure:** 0.03ms ~ 15s

E3CMOS Camera Dimensions



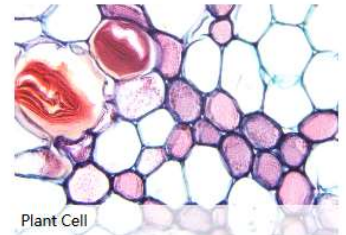
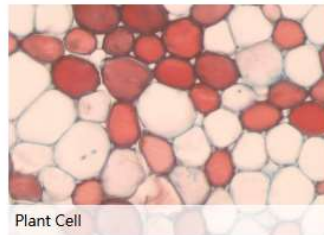
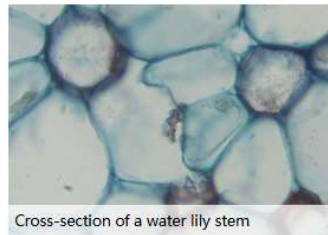
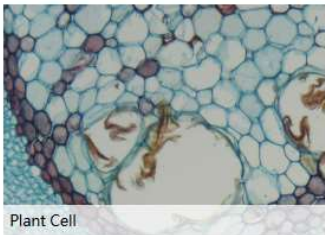
## specification

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 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 /11 (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

## Application

The E3CMOS series can be widely used in bright field light environment and microscope image capture and analysis with higher frame rate.

## Instance



## QUANTUM EFFICIENCY :

