



CAMERAS CAMSCOP-U3CCD

U3CCD Series C-mount USB3.0 CCD Camera



- Standard C-Mount camera with SONY ExView HAD CCD II sensors from 1.4M ~ 12M;
- IR-CUT Coated Windows
- Up to 1000s long time exposure;
- USB3.0 5Gbit/second interface ensuring high speed data transmission;
- Ultra-Fine color engine with perfect color reproduction capability;
- With advanced video & image processing application ToupView;
- Windows/Linux/macOS/Android multiple platforms SDK;

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U3CCD Series C-mount USB3.0 CCD Camera

CAMSCOP USB3.0 U3CCD is an ExView HAD CCD series camera. It adopts Sony ExView HAD CCD sensor as the image-picking device. Sony ExView HAD CCD is a CCD that drastically improves light efficiency by including near infrared light region as a basic structure of HAD (Hole-Accumulation-Diode) sensor. USB3.0 is used as the data transfer interface.

U3CCD camera hardware resolutions range from 1.4M to 12M and come with the integrated CNC aluminum alloy compact housing.

U3CCD comes with advanced video & image processing application software; Providing Windows/Linux/macOS/Android multiple platform SDK(Native C/C++, C#/VB.NET, Python, Java, DirectShow, Twain, etc);

The U3CCD can be widely used in bright field light environment and microscope image capture and analysis with higher frame rate.



| Sensor & Size (mm) | Pixel (µm) | G Sensitivity Dark Signal | FPS/Resolution | Binning | Exposure |
|--------------------------------------|------------|---|--|------------|---------------|
| 12M/ICX834AQG(C) 1"(13.15x8.77) | 3.10x3.10 | 420mv with 1/30s 15.2mv with 1/30s | 3.6@4284x2836 3.6@2124x1418 | 1x1 2x2 | 0.06ms~ 1000s |
| 12M/ICX834ALG(M) 1"(13.15x8.77) | 3.10x3.10 | 420mv with 1/30s 12mv with 1/30s (F#=8.0) | 3.6@4284x2836 3.6@2124x1418 | 1x1 2x2 | 0.06ms~ 1000s |
| 9.0M/ICX814AQG(C) 1"(12.47x9.98) | 3.69x3.69 | 580mv with 1/30s 12mv with 1/30s | 4.4@3388x2712 4.4@1694x1356 | 1x1 2x2 | 0.06ms~ 1000s |
| 9.0M/ICX814ALG(M) 1"(12.47x9.98) | 3.69x3.69 | 660mv with 1/30s 12mv with 1/30s (F#=8.0) | 4.4@3388x2712 4.4@1694x1356 | 1x1 2x2 | 0.06ms~ 1000s |
| 6.0M/ICX694AQG(C) 1"(12.48x9.99) | 4.54x4.54 | 1000mv with 1/30s 8mv with 1/30s | 7.5@2748x2200 14@2748x1092 | 1x1 | 0.06ms~ 1000s |
| 6.0M/ICX694ALG(M) 1"(12.48x9.99) | 4.54x4.54 | 1000mv with 1/30s 8mv with 1/30s | 7.5@2748x2200 14@2748x1092 | 1x1 | 0.06ms~ 1000s |
| 2.8M/ICX674AQG(C) 2/3"(8.81x6.63) | 4.54x4.54 | 800mv with 1/30s 4mv with 1/30s | 15@1938x1460 17@1610x1212 18@1930x1092 | 1x1 | 0.05ms~ 1000s |
| 2.8M/ICX674ALG(M) 2/3"(8.81x6.63) | 4.54x4.54 | 950mv with 1/30s 4mv with 1/30s | 15@1938x1460 17@1610x1212 18@1930x1092 | 1x1 | 0.05ms~ 1000s |
| 1.4M/ICX825AQA(C) 2/3"(8.88x6.70) | 6.45x6.45 | 2000mv with 1/30s 4.8mv with 1/30s | 25@1360x1040 | 1x1 | 0.07ms~ 1000s |
| 1.4M/ICX825ALA(M) 2/3"(8.88x6.70) | 6.45x6.45 | 2000mv with 1/30s 4.8mv with 1/30s | 25@1360x1040 | 1x1 | 0.07ms~ 1000s |

OTHER HARDWARE CONFIGURATION



| | |
|---------------------------|---|
| Spectral Range | 380-650nm (with IR-filter), for Monochromatic Camera, AR Is Used |
| White Balance | ROI White Balance/ Manual Temp-Tint Adjustment |
| Color Rendering Technique | Ultra 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 |
| Cooling System* | Natural |

OPERATING ENVIRONMENT

| | |
|-----------------------|---------------------------|
| Operating Temperature | -10 °C- 50 °C |
| Storage Temperature | -20 °C- 60 °C |
| Operating Humidity | 30~80%RH |
| Storage Humidity | 10~60%RH |
| Power Supply | DC 5V over PC USB3.0 Port |

SOFTWARE ENVIRONMENT

| | |
|------------------|---|
| Operating System | Support Microsoft Windows XP / Vista / 7 / 8 /10(32 & 64 bit) OS X (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 |



U3CCD Series C-Mount USB3.0 CCD Camera Dimension

. Installation drawings(Click to enlarge). The U3CCD Series USB3.0 CCD Camera body, made from tough, alloy, ensures a heavy duty, workhorse solution. The camera is designed with a high quality IR-CUT to protect the camera sensor. This design ensure a rugged, robust solution with an increased lifespan when compared to other industrial camera solutions.

