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SCCCD Series Semiconductor Cooling C-mount USB2.0 CCD Camera

- C-Mount camera with SONY EXview or Super HAD CCD 1.4M to 5.2M sensor;
- Well-designed high-performance TE-cooling with heat pipe heat sink structure;
- Up to 20 degrees temperature drop ensures high quality image with lower noise;
- Supporting up to 4'long time exposure;
- USB2.0 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 platform SDK;

Specification

SCCCD Series Semiconductor Cooling C-mount USB2.0 CCD Camera(5, discontinued)

ToupTek SCCCDCamera adopts semiconductor cooling peltier chip technique to keep Sony Exview HAD or HAD CCD sensor (The image-picking device) at low temperature. This will greatly increase the signal to noise ratio and decrease the image noise. Besides, integrated heat pipe-heat sink technique is used to transfer the heat to the camera housing fins. No fan is needed to keep the camera from vibration. USB2.0 is used as the data transfer interface.

SCCCD 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 SCCCDCan be widely used in low light environment and microscope fluorescence image capture and analysis.

Order Code	Sensor & Size(mm)	Pixel(μm)	G Sensitivity Dark Signal	FPS/Resolution	Binning	Exposure
SCCCD05200KPA TP905200A	ICX655AQ(C) 2/3"(8.44x7.07)	3.45x3.45	420mv with 1/30s 4mv with 1/30s	4.3@2448x2050 10.5@960x720	1x1	0.22ms~60s
SCCCD01400KPA TP901400A	ICX285AQ(C) 2/3"(8.77x6.60)	6.45x6.45	1240mv with 1/30s 10mv with 1/30s	15@1360x1024	1x1	0.12ms~240s
SCCCD01400KMA TM901400A	ICX285AL(M) 2/3"(8.77x6.60)	6.45x6.45	1300mv with 1/30s 11mv with 1/30s	15@1360x1024	1x1	0.12ms~240s
SCCCD01400KPB TP901400B	ICX205AK(C) 1/2"(6.32x4.76)	4.65x4.65	400mv with 1/30s 16mv with 1/30s	15@1360x1024	1x1	0.12ms~240s

SCCCD01400KMB TM901400B	ICX205AL(M) 1/2"(6.32x4.76)	4.65x4.65	450mv with 1/30s 16mv with 1/30s	15@1360x1024	1x1	0.12ms~240s
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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*	Two-stage TE-cooling System -45 °C below Camera Body Temperature

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 USB Port External Power Adapter for Cooling System, DC12V,3A

SOFTWARE ENVIRONMENT

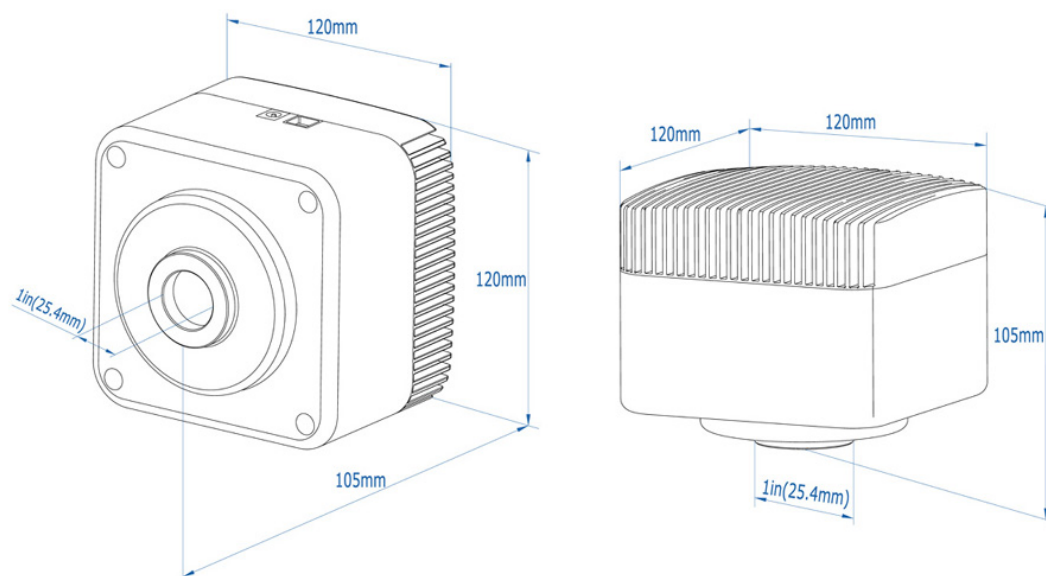
Operating System	Support Microsoft Windows XP / Vista / 7 / 8 / 10(32 & 64 bit) OS X (Mac OS X), Linux
PC Requirements	CPU: Equal to Intel Core2 2.8GHz or Higher Memory: 2GB or More USB port: USB2.0 High-speed Port Display: 17" or Larger CD-ROM

Advanced Software ToupView(Please Click ToupView to Check the Detail)

- Offers stitching, EDF, color composite, image stacking, image segmentation, video recording and measurement functions
- Conducts measurements for lengths, angles, arcs, areas and etc.
- Gives your computer screens the same field of view as your microscope's eyepiece
- Saves still images in BMP, TIFF, JPG, PICT, PTL or other formats
- Edit and process microscopy images in a manner similar to PhotoShop
- Live video and still image capture can be set in different resolutions simultaneously

Dimension of SCCC Series C-mount USB2.0 CCD Camera

The SCCC camera body, made from tough, CNC alloy, ensures a heavy duty, workhorse solution. The camera is designed with a high quality IR-CUT to protect the camera sensor and block the IR light. No moving parts included. This design ensures a rugged, robust solution with an increased lifespan when compared to other industrial camera solutions.



Drawing of SCCC Camera

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