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UHCCD Series C-Mount USB2.0 CCD Camera

C-Mount camera with SONY Super HAD CCD 0.8M~5.2M sensor;

Integrated zinc aluminum alloy housing;

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

UHCCD Series C-mount USB2.0 CCD Camera

UHCCD: ToupTek UHCCD is an ultra-high performance HAD CCD camera. The camera adopts Sony Super HAD CCD sensor as the image-picking device; The Super HAD CCD is a version of Sony's high performance CCD HAD (Hole-Accumulation Diode) sensor with sharply improved sensitivity by the incorporation of a new semiconductor technology developed by Sony Corporation. USB2.0 is used as the data transfer interface.

UHCCD 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 UHCCD can be widely used in brightfield light environment and microscope image capture and analysis.

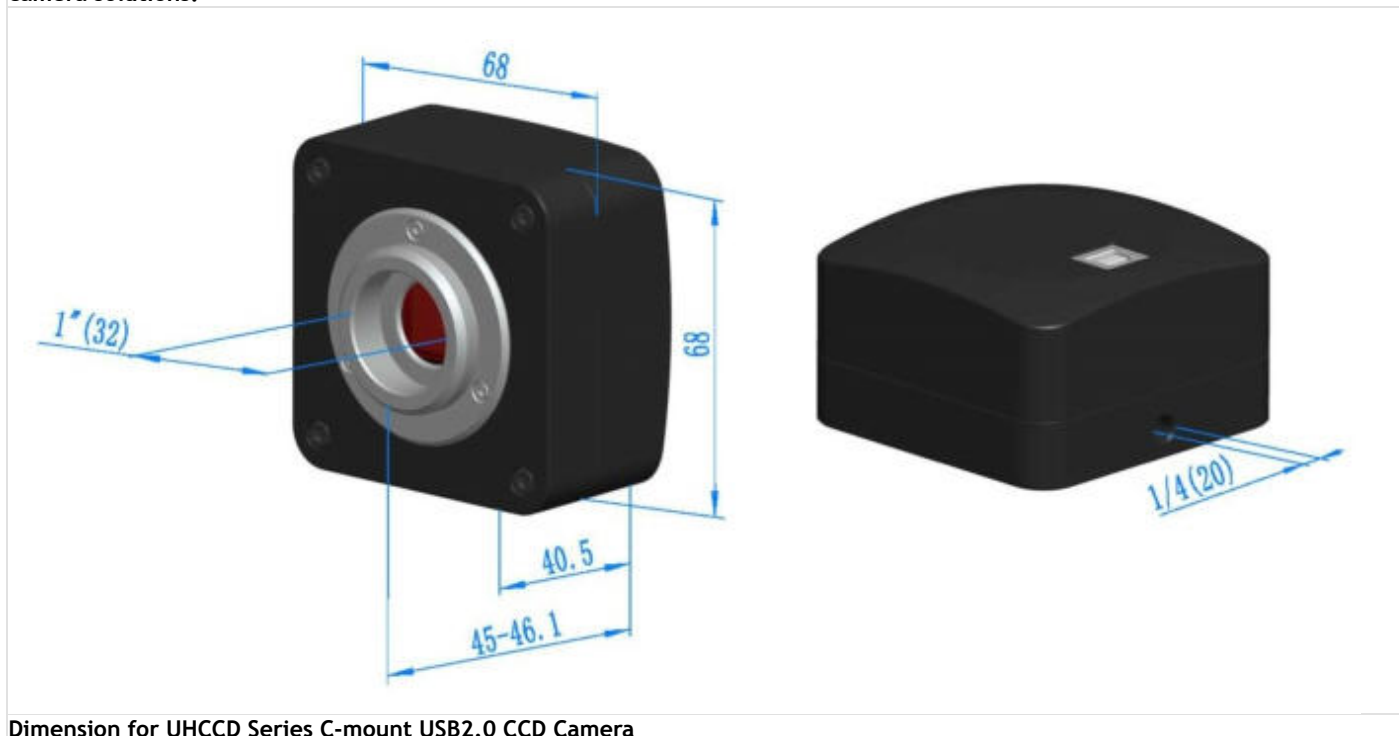
Order Code	Sensor & Size(mm)	Pixel(μm)	G Sensitivity Dark Signal	FPS/Resolution	Binning	Exposure
UHCCD05200KPA TP705200A	ICX655AQ(C) 2/3"(8.44x7.07)	3.45x3.45	420mv with 1/30s 4mv with 1/30s	4.3@2448x2050 10.5@960x720	1x1	0.22ms~60s
UHCCD05100KPA TP705100A	ICX452AQ(C) 1/1.8"(7.19x5.39)	2.775x2.775	260mv with 1/30s 16mv with 1/30s	4@2592x1944 35@560x420	1x1, 2x2	0.212ms~77ms
UHCCD05000KPA TP705000A	ICX282AQ(C) 2/3"(8.70x6.53)	3.4x3.4	280mv with 1/30s 16mv with 1/30s	4.5@2560x1920 9@1280x960	1x1, 2x2	0.203ms~60ms
UHCCD03100KPB TP703100B	ICX252AQ(C) 1/1.8"(7.06x5.30)	3.45x3.45	270mv with 1/30s 12mv with 1/30s	6@2048x1536 41@640x480	1x1,2x2	0.178ms~77ms
UHCCD02000KPA TP702000A	ICX274AQ(C) 1/1.8"(7.04x5.28)	4.40x4.40	420mv with 1/30s 8mv with 1/30s	10@1600x1200	1x1	0.135ms~60s
UHCCD01400KPA TP7051400A	ICX205AK(C) 1/2"(6.32x4.76)	4.65x4.65	400mv with 1/30s 16mv with 1/30s	8@1360x1024	1x1	0.227ms~60s
UHCCD01400KPB TP701400B	ICX205AK(C) 1/2"(6.32x4.76)	4.65x4.65	400mv with 1/30s 16mv with 1/30s	15@1360x1024	1x1	0.127ms~60s
UHCCD01400KMB TM701400B	ICX205AK(M) 1/2"(6.32x4.76)	4.65x4.65	450mv with 1/30s 16mv with 1/30s	15@1360x1024	1x1	0.127ms~60s

UHCCD00800KPA TP700800A	ICX204AK(C) 1/3" (4.76x3.57)	4.65x4.65	400mv with 1/30s 16mv with 1/30s	16@1024x768	1x1	0.16ms-60s
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OTHER HARDWARE CONFIGURATION	
Spectral Range	380-650nm (with IR-Cut 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 USB 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

UHCCD Series C-mount USB2.0 CCD Camera Dimension

Installation drawings(Click to enlarge). The UHCCD Series USB2.0 CCD Camera body, made from tough, zinc alloy, ensures a heavy duty, workhorse solution. The camera is designed with a high quality IR-CUT to protect the camera sensor. No moving parts included. This design ensures a rugged, robust solution with an increased lifespan when compared to other industrial camera solutions.



Dimension for UHCCD Series C-mount USB2.0 CCD Camera

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