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MTR3CCD Series C-mount Temperature Regulated USB3.0 CCD Camera

Standard C-Mount camera with SONY ExView HAD CCD II sensor from 1.4M ~ 12M;

Two-stage TE-cooling with controllable electric fan;

Working temperature can be regulated to specified temperature;

Smart structure to assure the heat radiation efficiency and avoid the moisture problem;

Up to 45 degrees temperature drop ensures high quality image with low noise;

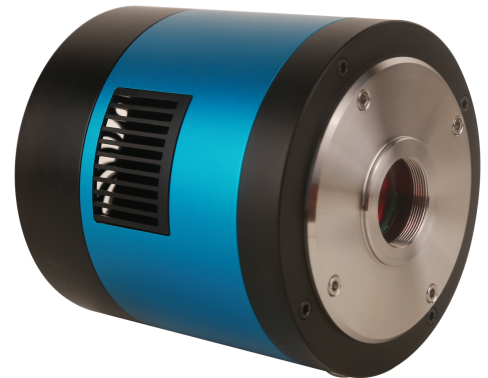
Up to 1 hour long time exposure;

USB3.0 5Gbit/second interface ensuring high speed data transmission;

Ultra-FineTM color engine with perfect color reproduction capability;

With advanced video & image processing application ToupView;

Windows/Linux/macOS/Android multiple platforms SDK;



Specification

MTR3CCD Series C-mount Temature Regulated USB3.0 CCD Camera(12)

MTR3CCD: ToupTek MTR3CCD is an Microscope Temterature Regulated USB3.0 CCD camera and 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.

MTR3CCD 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 MTR3CCD can be widely used in low light environment and microscope fluorescence image capture and analysis.

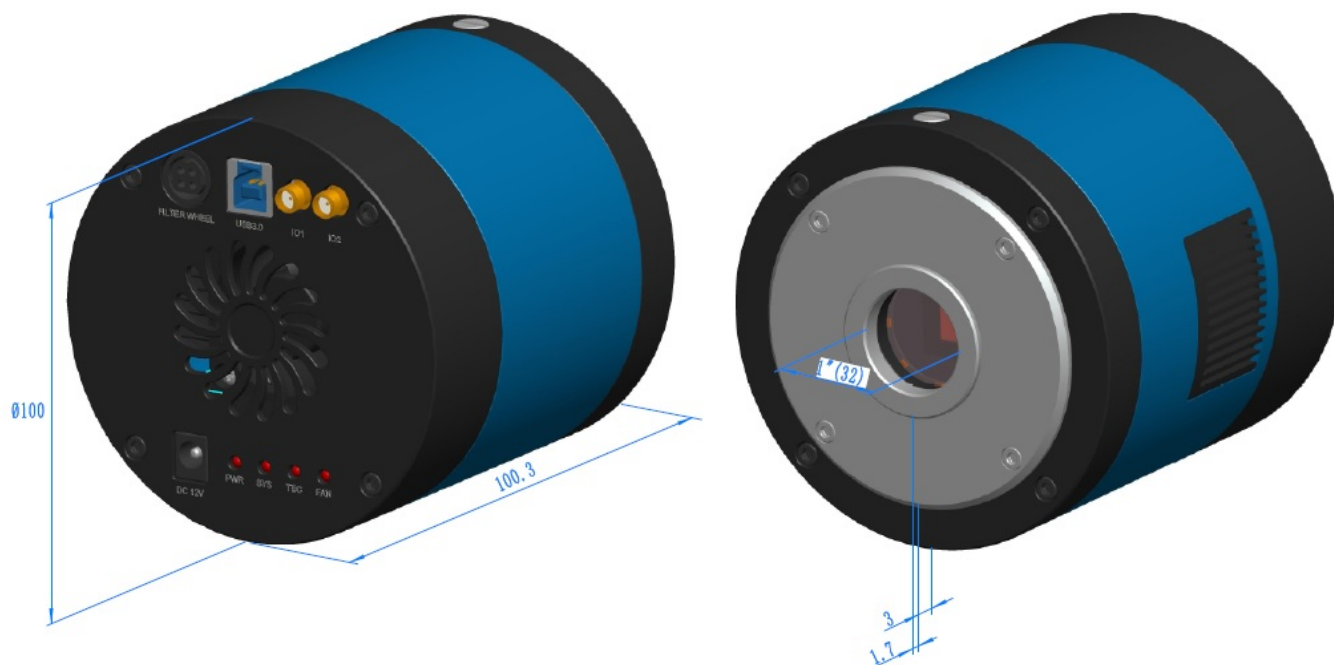
Order Code	Sensor & Size(mm)	Pixel(μm)	G Sensitivity Dark Signal	FPS/Resolution	Binning	Exposure
MTR3CCD12000KPA MP112000A(New)	12.0M/ICX834AQG(C) 1"(13.15x8.77)	3.10x3.10	420mv with 1/30s 15.2mv with 1/30s	3.6@24248x2836 3.6@2124x1418	1x1 2x2	0.06ms~3600s
MTR3CCD12000KMA MM112000A(New)	12.0M/ICX834ALG(C) 1"(13.15x8.77)	3.10x3.10	420mv with 1/30s 12mv with	3.6@24248x2836 3.6@2124x1418	1x1 2x2	0.06ms~3600s

			1/30s(F8.0)			
MTR3CCD09000KPA MP109000A(New)	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~3600s
MTR3CCD09000KMA MM109000A(New)	9.0M/ICX814ALG(C) 1"(12.47x9.98)	3.69x3.69	580mv with 1/30s 12mv with 1/30s(F8.0)	4.4 @3388x2712 4.4 @1694x1356	1x1 2x2	0.06ms~3600s
MTR3CCD06000KPA MP106000A(New)	6.0M/ICX694AQG(C) 1"(12.48x9.99)	4.54x4.54	880mv with 1/30s 8mv with 1/30s	7.5@2748x2200 14@2748x1092	1x1	0.06ms~3600s
MTR3CCD06000KMA MM106000A(New)	6.0M/ICX694ALG(M) 1"(12.48x9.998)	4.54x4.54	1000mv with 1/30s 8mv with 1/30s	7.5@2748x2200 14@2748x1092	1x1	0.06ms~3600s
MTR3CCD02800KPA MP102800A(New)	2.8M/ICX674AQG(C) 2/3"(8.81x6.63)	4.54x4.54	800mv with 1/30s 4mv with 1/30s	15@1940x1460 17@1610x1212 18@1932x1092	1x1	0.05ms~3600s
MTR3CCD02800KMA MM102800A(New)	2.8M/ICX674ALG(M) 2/3"(8.81x6.63)	4.54x4.54	950mv with 1/30s 4mv with 1/30s	15@1940x1460 17@1610x1212 18@1932x1092	1x1	0.05ms~3600s
MTR3CCD01400KPA MP101400A(New)	1.4M/ICX285AQA(C) 2/3"(8.88x6.70)	6.45x6.45	1240mv with 1/30s 10mv with 1/30s	15@1360x1024	1x1	0.07ms~3600s
MTR3CCD01400KMA MM101400A(New)	1.4M/ICX285ALA(M) 2/3"(8.88x6.70)	6.45x6.45	1300mv with 1/30s 11mv with 1/30s	15@1360x1024	1x1	0.07ms~3600s
MTR3CCD01400KPB MP101400A(New)	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~3600s
MTR3CCD01400KMB MM101400A(New)	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~3600s

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

Dimension of MTR3CCD Series Camera

Installation drawings(Click to enlarge). The MTR3CCD 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 ensures a rugged, robust solution with an increased lifespan when compared to other industrial camera solutions.



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