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LCMOS Series C-mount USB2.0 CMOS Camera

Standard C-Mount camera with Aptina CMOS sensor;

With hardware resolution among 1.2M to 14M;

On-board memory for perfect synchronization, higher frame rate and stable performance;

High performance cooling structure, ensures low image noise;

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

LCMOS Series C-mount USB2.0 CMOS Camera(10)

LCMOS: ToupTek LCMOS camera is a luxurious USB2.0 CMOS camera with frame buffers and it adopts ultra-high performance CMOS sensor as the image-picking device, and USB2.0 is used as the data transfer interface.

LCMOS 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 LCMOS can be widely used in brightfield environment and microscope image capture and analysis with moderate speed.

Order Code	Sensor & Size(mm)	Pixel(μm)	G Sensitivity Dark Signal	FPS/Resolution	Binning	Exposure
LCMOS14000KPA LP614000A	14M/MT9F002(C) 1/2.3" (5.73x4.60)	1.4x1.4	0.724v/lux-sec 65.3dB 35.5dB	2.7@4096x3288 10@2048x1644 35@1024 x822	1x1 2x2 4x4	0.4ms~2000ms
LCMOS12000KPA LP612000A(2022)	12M/IMX577(C) 1/2.1" (5.95x4.71)	1.55x1.55	250mv with 1/30s 0.25mv with 1/30s	3@3840x3040 11@1920x1516 47@960x758	1x1 2x2 4x4	0.4ms~2000ms
LCMOS10000KPA LP610000A(2022)	10M/IMX577(C) 1/2.3" (5.56x4.26)	1.55x1.55	250mv with 1/30s 0.25mv with 1/30s	3.3@3584x2748 12@1792x1374 53@896x684	1x1 2x2 4x4	0.4ms~2000ms
LCMOS09000KPA LP609000A(2022)	9M/Special(C) 1/2.4" (5.41x4.05)	1.55x1.55	250mv with 1/30s 0.25mv with 1/30s	3.5@3488x2616 13@1744x1308 55@872x654	1x1 2x2 4x4	0.4ms~2000ms
LCMOS08000KPA	8M/Special(C)	1.55x1.55	250mv with 1/30s	4@3264x2448	1x1	0.4ms~2000ms

LP608000A(2022)	1/2.5"(5.06x3.79)		0.25mv with 1/30s	15@1600x1200 62@800x600	2x2 4x4	
LCMOS05100KPA LP605100A(2022)	5.1M/AR0521(C) 1/2.5" (5.70x4.28)	2.2x2.2	18.8ke-/lux 73dB 40dB	7.0@2592x1944 27.7@1296x972 100.5@648x486	1x1 2x2 4x4	0.2ms~2000ms
LCMOS03100KPB LP603100B(2022)	3.1M/IMX123(C) 1/2.8" (5.12x3.84)	2.5x2.5	600mv with 1/30s 0.15mv with 1/30s	11.5@2048x1536 29.5@1024x768	1x1 2x2	0.2ms~2000ms
LCMOS01300KPA LP601300A	1.3M/MT9M111(C) 1/3"(4.60x3.70)	3.6x3.6	2.1V/lux-sec 68.2dB 45dB	15@1280x1024 26@640x512 48@320x256	1x1 2x2 4x4	0.14ms~2000ms
LCMOS01200KPB LP601200B	1.2M/AR0130(C) 1/3"(4.80x3.60)	3.75 x3.75	5.5v/lux-sec 85.3dB 44dB	28@1280x960 30@640x480	1x1 2x2	0.4ms~2000ms
LCMOS10000KPA LP610000A	10M/MT9J003(C) 1/2.3" (5.98x4.59)	1.67x1.67	0.31v/lux-sec 65.2dB 34dB	3.7@3584x2748 13@1792x1374 35@896 x684	1x1 2x2 4x4	0.4ms~2000ms
LCMOS09000KPB LP609000B	9M/Special(C) 1/2.4"(5.83x4.37)	1.67x1.67	0.31v/lux-sec 65.2dB 34dB	3.9@3488x2616 15@1744x1308 47@872 x654	1x1 2x2 4x4	0.4ms~2000ms
LCMOS08000KPB LP608000B	8M/Special(C) 1/2.5"(5.45x4.09)	1.67x1.67	0.31v/lux-sec 65.2dB 34dB	4.4@3264x2448 17@1600x1200 55@800x600	1x1 2x2 4x4	0.4ms~2000ms
LCMOS05100KPA LP605100A	5.1M/MT9P001(C) 1/2.5"(5.70x4.28)	2.2x2.2	0.53 V/lux-sec 66.5dB 40.5dB	6.8@2592x1944 18@1280x960 55@640x480	1x1 2x2 4x4	0.294ms~2000ms
LCMOS03100KPA LP603100A	3.1M/MT9T001(C) 1/2"(6.55x4.92)	3.2x3.2	1.0 V/lux-sec 61dB 43dB	11.5@2048x1536 32@1024x768 45@680x510	1x1 2x2 3x3	0.244ms~2000ms
LCMOS03100KPB LP603100B	3.1M/IMX036(C) 1/2.8"(5.12x3.84)	2.5x2.5	200mv with 1/30s 0.5mv with 1/30s	12@2048x1536 48@1024x768 48@680x510	1x1 2x2 3x3	0.244ms~2000ms
LCMOS02000KPB LP602000B	2.0M/Special(C) 1/2.6"(5.12x3.84)	3.2x3.2	1.0 V/lux-sec 61dB 43dB	16@1600x1200 40@800x600	1x1 2x2	0.244ms~2000ms

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

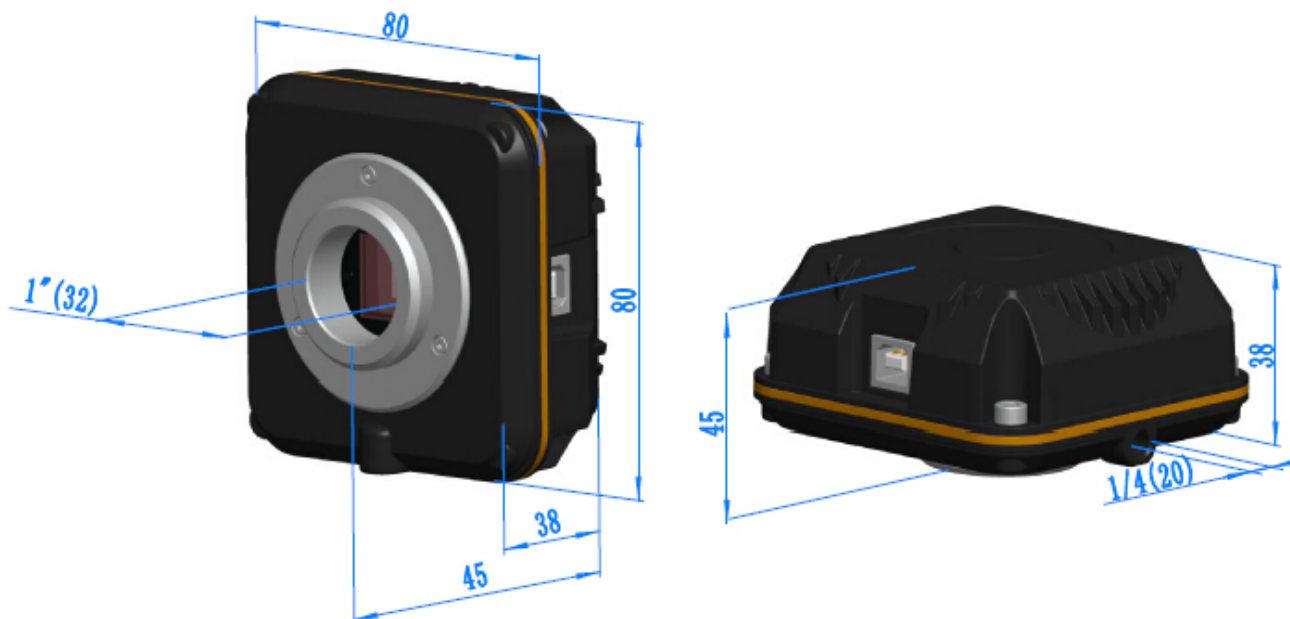
Operating Temperature	-10 °C~ 50 °C
Storage Temperature	-20 °C~ 60 °C
Operating Humidity	30~80%RH
Storage Humidity	10~60%RH
Power Supply	DC 5V over PC USB Port

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

LCMOS Series USB2.0 CMOS Camera Dimension

Installation drawings(Click to enlarge). The LCMOS Series USB2.0 CMOS Camera body, made from tough, CNC aluminium 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.



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