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ICMOS Basic Characteristic

ICMOS is an industrial CMOS camera and it adopts ultra-high performance CMOS sensor as the image-picking device.USB2.0 is used as the data transfer interface. Dimensions: 29x29x29 mm excluding lens holder, without optics (metal case) is realized to obey the industrial camera standard.

A 8-pin Hirose HR25-7TR-8PA GPIO connector for trigger, strobe(Optional);

Further, the ICMOS comes with advanced video & image processing application ToupView and providing Windows/Linux/OSX multiple platforms SDK;

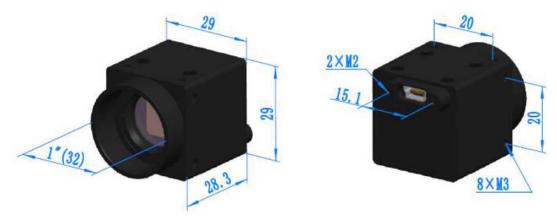
Also native C/C++, C#/VB.NET, DirectShow, Twain Control API are provided.

The ICMOS can be widely used in machine vision and on-line inspection.

The basic characteristic of ICMOS cameras are as follows:

- ☐ C-Mount camera with Aptina or OnSemi CMOS sensor;
- ☐ Dimensions: 29x29x29 mm excluding lens holder, without optics (metal case);
- □ 8-pin Hirose HR25-7TR-8PA GPIO connector for trigger, strobe(Optional);
- □ USB 2.0 interface with screw locks for camera control, data, and power;
- ☐ With advanced video & image processing application ToupView;
- ☐ Providing Windows/Linux/Mac OS multiple platforms SDK;
- □ Native C/C++, C#/VB.NET, DirectShow, TwainControl API;





Order Code	Sensor & Size(mm)	Pixel(μm)	G Responsivity Dynamic range SNRmax	FPS/Resolution	Binning	Exposure(ms)
ICMOS03100KPA IP603100A	3.1M/MT9T001(C) 1/2" (6.55x4.92)	3.2x3.2	1.0 V/lux-sec 61dB 43dB	12@2048x1536 43@1024x768 83@680x510	1x1	0.128ms~2000ms
ICMOS01300KMA IM601300A	1.3M/MT9M001(M) 1/2" (6.66x5.32)	5.2x5.2	2.1 V/lux-sec 68.2dB 45dB	30@1280x1024	1x1	0.64ms~1035.62ms
ICMOS10000KPA IP610000A	10M/MT9J003(C) 1/2.3" (6.44x4.616)	1.67x1.67	0.31v/lux-sec 65.2dB 34dB	3.7@3584x2748 13@1792x1374 35@896 x684	1x1, 2x2, 4x4	0.4ms~2000ms
ICMOS14000KPA IP614000A	14M/MT9F002(C) 1/2.3"(6.451x4.603)	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

C: Color; M: Monochrome;

Other Specification for ICMOS Camera

380-650nm (with IR-cut Filter)					
ROI White Balance/ Manual Temp Tint Adjustment/NA for Monochromatic Sensor					
Ultra-Fine TM Color Engine/NA for Monochromatic Sensor					
Native C/C++, C#/VB.NET, DirectShow, Twain and Labview					
Still Picture and Movie					
Include Locking Screws					
IO with Optocoupler Isolation(Trigger and Flash)					
Operating Modes					
Operating Environment					



Stan	dard Camera Packing	List						
A	Carton L:52cm W:32cm H:33cm (50pcs, 12~17Kg/ carton), not shown in the photo							
В	Gift box L:14cm W:9.7cm H:6cm (0.17~0.18Kg/ box)							
С	ICMOS series USB2.0 C-mount camera							
D	High-speed USB 2.0 A male to B male gold-plated connectors cable /2.0m							
E	E CD (Driver & utilities software, Ø12cm)							
Opti	Optional Accessory							
F	Adjustable lens adapter	C-mount to Dia.23.2mm eyepiece tube (Please choose 1 of them for your microscope)	108001/AMA037 108002/AMA050 108003/AMA075					
		C-mount to Dia.31.75mm eyepiece Tube (Please choose 1 of them for your telescope)	108008/ATA037 108009/ATA050 108010/ATA075					
G	Fixed lens adaptor	C-mount to Dia 23.2mm eyepiece tube (Please choose 1 of them for your microscope)	108005/FMA037 108006/FMA050 108007/FMA075					
		C-Mount to Dia.31.75mm eyepiece tube (Please choose 1 of them for your telescope)	108011/FTA037 108012/FTA050 108013/FTA075					
	Note: For F and G optional items, please specify your camera type(C-mount, microscope camera or telescope camera), ToupTek engineer will help you to determine the right microscope or telescope camera adapter for your application;							
H	108015(Dia.23.2mm to 30.0mm Ring)/Adaptor rings for 30mm eyepiece tube							
I	108016(Dia.23.2mm to 30.5mm Ring)/ Adaptor rings for 30.5mm eyepiece tube							
J	108017(Dia.23.2mm to 31.75mm Ring)/ Adaptor rings for 31.75mm eyepiece tube							
K	Calibration Kit	106011/TS-M1(X=0.01mm/100Div.); 106012/TS-M2(X,Y=0.01mm/100Div.); 106013/TS-M7(X=0.01mm/100Div., 0.10mm/100Div.)						

The above statements are based on our present knowledge. Our statements should not be interpreted as a guarantee of characteristics. The use of our products by our customers is subject to different conditions, therefore none of our customers are relieved of the responsibility of testing our products by themselves. A liability for consequential damage will not be accepted in any case. For damage resulting from the use of this information we can only be held responsible if there is evidence of malice or negligence on our part. This data-sheet replaces any previous data sheets.

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USB-Cam-ICMOS-DBE.doc, version Nov-18