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## MICROS UCMOS Series C-mount USB2.0 CMOS Camera 5MP to 14MP

### MICROS UCMOS Basic Characteristic

UCMOS is an ultra-high performance CMOS camera and it adopts ultra-high performance CMOS sensor as the image-picking device. USB2.0 is used as the data transfer interface.

UCMOS hardware resolutions ranges from 5M to 14M and comes with the CNC aluminum alloy compact housing. UCMOS comes with advanced video & image processing application ToupView; Providing Windows/Linux/OSX multiple platform SDK; Native C/C++, C#/VB.NET, DirectShow, Twain Control API; The UCMOS can be widely used in bright field light environment and microscope image capture and analysis with moderate frame rate.

The basic characteristic of UCMOS cameras are as follows:

- Standard C-Mount with Aptina CMOS sensor;
- With hardware resolution among 5M to 14M;
- CNC 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;
- Providing Windows/Linux/Mac OS multiple platforms SDK;
- Native C/C++, C#/VB.NET, DirectShow, Twain Control API;



## UCMOS Datasheet

Order Code	Sensor & Size(mm)	Pixel( $\mu\text{m}$ )	G Responsivity Dynamic range SNRmax	FPS/ Resolution	Binning	Exposure
910414	14M/MT9F002(C) 1/2.3" (5.73x4.60)	1.4x1.4	0.724v/lux-sec 65.3dB 35.5dB	1.8@4096x3288 10@2048x1644 27@1024x822	1x1, 2x2, 4x4	0.4ms~2000ms
910410	10M/MT9J003(C) 1/2.3" (5.98x4.59)	1.67x1.67	0.31v/lux-sec 65.2dB 34dB	1.9@3584x2748 8@1792x1374 27@896x684	1x1, 2x2, 4x4	0.4ms~2000ms
910409	9M/Special(C) 1/2.4" (5.83x4.37)	1.67x1.67	0.31v/lux-sec 65.2dB 34dB	1.9@3488x2616 8@1744x1308 27@872x654	1x1, 2x2, 4x4	0.4ms~2000ms
910402	5.1M/MT9P006(C) 1/2.5" (5.70x4.28)	2.2x2.2	0.53 V/lux-sec 66.5dB 40.5dB	5@2592x1944 18@1280x960 60@640x480	1x1, 2x2, 4x4	0.294ms~2000ms

C: Color - M: Monochrome

### Other Specification for UCMOS Camera

Spectral Range	380-650nm (with IR-cut Filter)
White Balance	ROI White Balance/ Manual Temp Tint Adjustment/NA for Monochromatic Sensor
Color Technique	Ultra-Fine™ Color Engine/NA for Monochromatic Sensor
Capture/Control API	Native C/C++, C#/VB.NET, DirectShow, Twain and Labview
Recording System	Still Picture and Movie
Cooling System*	Natural

### Operating Environment

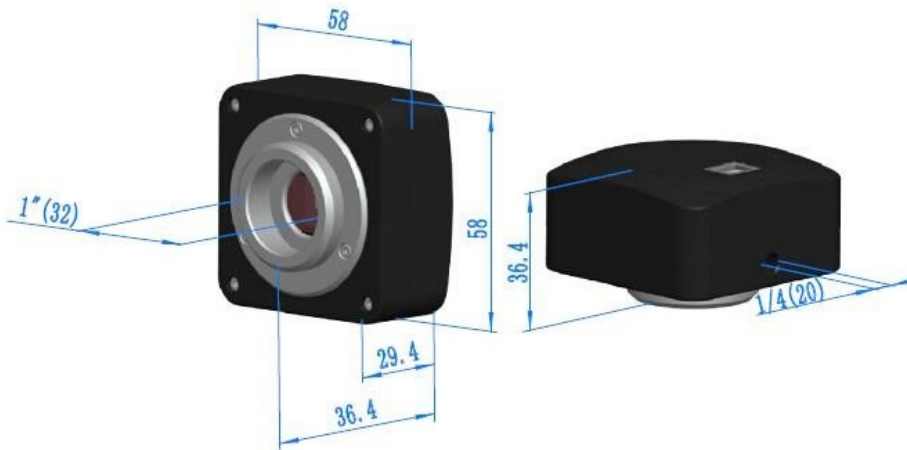
Operating Temperature(in Centidegree)	-10~ 50
Storage Temperature(in Centidegree)	-20~ 60
Operating Humidity	30~80%RH
Storage Humidity	10~60%RH
Power Supply	DC 5V over PC USB Port

### Software Environment

Operating System	Microsoft® Windows® XP / Vista / 7 / 8 / 10 (32 & 64 bit) OSx(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 UCMOS

The UCMOS body, made from tough, aluminum 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 of UCMOS

## Packing Information for UCMOS



### Standard Camera Packing List

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| A | Carton L:52cm W:32cm H:33cm (20pcs, 12~17Kg/ carton), not shown in the photo |
| B | Gift box L:15cm W:15cm H:10cm (0.5~0.55Kg/ box)                              |
| C | UCMOS series USB2.0 C-mount CMOS camera                                      |
| D | High-speed USB2.0 A male to B male gold-plated connectors cable /2.0m        |
| E | CD (Driver & utilities software, Ø12cm)                                      |