



BUC3D Series C-mount USB3.0 CMOS Camera



Introduction

BUC3D series cameras are ultra-high performance USB3.0 CMOS cameras and they adopt ultra-high performance CMOS sensor as the image-picking device and USB3.0 is used as the data transfer interface.

BUC3D series cameras hardware resolutions range from 5.0M to 10M and come with the CNC aluminum alloy compact housing.

BUC3D series cameras come with advanced video & image processing application ImageView; Providing Windows/Linux/ OSX multiple platforms SDK; Native C/C++, C#/VB.NET, DirectShow, Twain Control API;

The BUC3D series cameras can be widely used in bright field light environment and microscope image capture and analysis with higher frame rate.

Features

The basic characteristic of the BUC3D cameras are as follows:

- 1. Standard C-Mount camera with Aptina CMOS sensor;
- 2. CNC aluminum alloy housing;
- 3. USB3.0 5 Gbps interface ensuring high frame rate;
- 4. With advanced video & image processing application ImageView;
- 5. Providing Windows/Linux/Mac OS multiple platforms SDK;
- 6. Native C/C++, C#/VB.NET, DirectShow, Twain Control API.





Specification

Order Code	Sensor & Size	Pixel(µm)	G Responsivity Dynamic range	FPS/Resolution	Binning	Exposure
			SNRmax			
BUC3D-500C	5.1M/MT9P006(C) 1/2.5" (5.70x4.28)		1.76v/lux-sec	14.0@2592x1944	1x1	
		2.2x2.2	67.74dB	29.4@1280x960	2x2	0.1ms~2000ms
			38.5dB	103.1@640x480	4x4	
	10M/MT9J003(C) 1/2.3" (5.98x4.58)		0.31v/lux-sec	7.2@3664x2748	1x1	
BUC3D-1000C		1.67x1.67	65.2dB	23.8@1832x1374	2x2	0.1ms~2000ms
			34dB	77.4@912x686	4x4	

C: Color; M: Monochrome;

Other Specification for BUC3D 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	-10~ 50			
Centigrade)				
Storage Temperature (in	-20~ 60			
Centigrade)	-20 60			
Operating Humidity	30~80%RH			
Storage Humidity	10~60%RH			
Power Supply	DC 5V over PC USB Port			
Software Environment				
	Microsoft* Windows* XP / Vista / 7 / 8 /10 (32 & 64 bit)			
Operating System	OSx(Mac OS X)			
	Linux			
	CPU: Equal to Intel Core2 2.8GHz or Higher			
	Memory:2GB or More			
PC Requirements	USB Port: USB3.0 High-speed Port			
	Display:17" or Larger			
	CD-ROM			

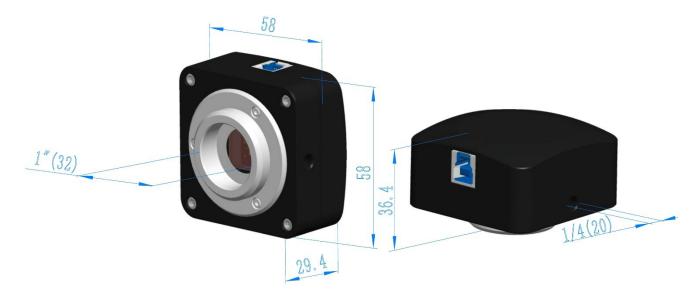
Dimension of BUC3D

The BUC3D 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 BUC3D





Packing Information for BUC3D



Packing Information of BUC3D

Stand	andard Camera Packing List				
Α	Carton L:52cm W:32cm H:33cm (20pcs, 12~17Kg/ carton), not shown in the photo				
В	Gift box L:15cm W:15cm H:10cm (0.67~0.7Kg/ box)				
С	BUC3D series USB3.0 C-mount CMOS camera				
D	High-speed USB3.0 A male to B male gold-plated connectors cable /2.0m				
Е	CD (Driver & utilities software, Ø12cm)				
Optio	Optional Accessory				
F		C-mount to Dia.23.2mm eyepiece tube			
	Adjustable lens adapter	(Please choose 1 of them for your microscope)			
	Adjustable lefts adapter	C-mount to Dia.31.75mm eyepiece tube			
		(Please choose 1 of them for your telescope)			
		C-mount to Dia.23.2mm eyepiece tube			
	Fixed lens Adapter	(Please choose 1 of them for your microscope)			
G	Traca lens Adapter	C-Mount to Dia.31.75mm Eyepiece Tube			
		(Please choose 1 of them for your telescope)			
	Note: For F and G optional items, please specify your camera type (C-mount, microscope camera or telescope camera), our				
	engineer will help you to determine the right microscope or telescope camera adapter for your application.				
Н	108015(Dia.23.2mm to 30.0mm Ring)/Adapter rings for 30mm eyepiece tube				
- 1	108016(Dia.23.2mm to 30.5mm Ring)/ Adapter rings for 30.5mm eyepiece tube				
J	108017(Dia.23.2mm to 31.75mm Ring)/ Adapter 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.)

Extension of BUC3D with Microscope or Telescope Adapter

Extension	Picture		
C-mount Camera		Machine vision; Medical imaging; Semiconductor equipment; Test instruments; Document scanners; 2D barcode readers; Web camera and security video; Microscope imaging;	
Microscope Camera	(23.2mm Adapter)	(23.2mm Adapter)	
Telescope Camera	(31.75mm Adapter)	(31.75mm Adapter)	