



#### **BUC6A Series C-mount USB3.0 CCD Camera**





#### Introduction

BUC6A series USB3.0 CCD digital camera adopt Sony ExView HAD CCD sensor as the image capture 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. USB3.0 is used as the data transfer interface.

BUC6A series cameras" hardware resolutions range from 2.8M to 6M and come with the integrated CNC aluminum alloy compact housing.

BUC6A 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 BUC6A series cameras can be widely used in bright field, dark field, fluorescent light environment and microscope image capture and analysis with higher frame rate.

#### **Features**

The BUC6A series cameras" characteristic is as follows:

- 1. Standard C-Mount camera with SONY ExView HAD CCD II sensors from 2.8M ~ 6M;
- 2. IR-CUT Coated Windows;
- 3. Up to 1000s long time exposure;
- 4. USB3.0 5Gbit/second interface ensuring high speed data transmission;
- 5. Ultra-Fine™ color engine with perfect color reproduction capability;





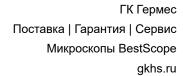
- 6. With advanced video & image processing application ImageView;
- 7. Providing Windows/Linux/Mac OS multiple platforms SDK;
- 8. Native C/C++, C#/VB.NET, DirectShow, Twain Control API.

## **Specification**

Order Code	Sensor & Size(mm)	Pixel(µm)	G Sensitivity	FPS/Resolution	Binning	Exposure
			Dark Signal			-
BUC6A-1200C	12M/ICX834AQG(C)	3.1x3.1	420mv with 1/30s	3.6@4248x2836	1x1,	0.06ms~1000s
BUC0A-1200C	1" (13.15x8.77)	3.173.1	15.2mv with 1/30s	3.6@2124x1418	2x2	0.001115 10005
	1204/10024410(04)		420mv with 1/30s	2 ( ( ) 42 49 22 22 (	1,41	
BUC6A-1200M	12M/ICX834ALG(M)	3.1x3.1	12mv with 1/30s	3.6@4248x2836	1x1,	0.06ms~1000s
	1" (13.15x8.77)		(F8.0)	3.6@2124x1418	2x2	
BLICEA DOOC	9.0M/ICX814AQG(C)	3.69x3.69	580mv with 1/30s	4.4@3388x2712	1x1,	0.06mc~1000c
BUC6A-900C	1" (12.47x9.98)	3.0983.09	12mv with 1/30s	4.4@1694x1356	2x2	0.06ms~1000s
	0.004/100914416/04		660mv with 1/30s	4.4@3388x2712	1 1 1	
BUC6A-900M	9.0M/ICX814ALG(M)	3.69x3.69	12mv with 1/30s		1x1, 2x2 0.06m	0.06ms~1000s
	1" (12.47x9.98)		(F8.0)	4.4@1694x1356		
BUC6A-600C	6.0M/ICX694AQG(C)	4.54x4.54	880mv with 1/30s	7.5@2748x2200	1,,1	0.06mc×1000c
BUC6A-600C	1" (12.48x9.99)	4.54X4.54	8mv with 1/30s	14@2748x1092	1x1	0.06ms~1000s
DUICCA COOM	6.0M/ICX694ALG(M)	454454	1000mv with 1/30s	7.5@2748x2200	1x1 0.06	0.000
BUC6A-600M	1" (12.48x9.99)	4.54x4.54	8mv with 1/30s	14@2748x1092		0.06ms~1000s
	2.8M/ICX674AQG(C)		800mv with 1/30s	15@1938x1460		
BUC6A-280C		4.54x4.54	4mv with 1/30s	17@1610x1212	1x1	0.05ms~1000s
	2/3" (8.81x6.63)			18@1930x1092		
	2 984/10067481 0/84		0E0my with 1/20c	15@1938x1460		
BUC6A-280M	2.8M/ICX674ALG(M)	4.54x4.54	950mv with 1/30s 4mv with 1/30s	17@1610x1212	1x1	0.05ms~1000s
	2/3" (8.81x6.63)			18@1930x1092		
BUC6A-140C	1.4M/ICX825AQA(C)	6.45.6.45	2000mv with 1/30s	25@1376x1040	1x1	0.07ms~1000s
	2/3" (8.88x6.70)	6.45x6.45	4.8mv with 1/30s			
BUC6A-140M	1.4M/ICX825ALA(M)	C 45C 45	2000mv with 1/30s	25@1376x1040	1x1	0.07ms~1000s
BUCOA-14UIVI	2/3" (8.88x6.70)	6.45x6.45	4.8mv with 1/30s			

C: Color; M: Monochrome;

Other Specification for BUC6A 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 <sup>™</sup> Color Engine/NA for Monochromatic Sensor	
Capture/Control API	Native C/C++, C# /VB.Net, DirectShow, Twain	
Recording System	Still Picture and Movie	
Cooling System	Natural	







Operating Environment		
Operating Temperature (in Centigrade)	-10~ 50	
Storage Temperature (in 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 BUC6A**

The BUC6A body, made from tough, CNC 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. These measures ensure a rugged, robust solution with an increased lifespan when compared to other industrial camera solutions.







Dimension of BUC6A

# Packing Information for BUC6A







### Packing Information of BUC6A

	0 2 2000				
Stand	Standard 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 (0.7~0.75Kg/ box)				
С	BUC6A series USB3.0 C-mount CMOS camera				
D	High-speed USB3.0 A male to B male gold-plated connectors cable /2.0m				
Е	E CD (Driver & utilities software, Ø12cm)				
Optio	nal Accessory				
		C-mount to Dia.23.2mm eyepiece tube			
F	Adjustable lens adapter	(Please choose 1 of them for your microscope)			
F	Adjustable lens 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	, wearens , taapte.	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 car					
	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				
I	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				
		106011/TS-M1(X=0.01mm/100Div.);			
K	Calibration kit	106012/TS-M2(X,Y=0.01mm/100Div.);			
		106013/TS-M7(X=0.01mm/100Div., 0.10mm/100Div.)			

# **Extension of BUC6A with Microscope or Telescope Adapter**

Extension		Picture		
C-mount Camera	CANTON CE LABORATOR FOR SANCE PROPERTY OF THE	Machine vision; Medical imaging; Semiconductor equipment; Test instruments; Document scanners; 2D barcode readers; Web camera and security video; Microscope imaging;		





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Microscope Camera	23.2mm Adjustable Adapter	23.2mm Fixed Adapter
Telescope Camera	31.75mm Adjustable Adapte	31.75mm Fixed Adapter