



### **BUC4C Series C-mount USB2.0 CCD Camera**



### Introduction

BUC4C series CCD cameras are ultra-high performance Super HAD CCD camera. The cameras adopt Sony Super HAD CCD sensor as the image capture device; The Super HAD CCD is a version of Sony's high performance CCD HAD (Hole-Accumulation Diode) sensor with sharply improved sensitivity by the incorporation of a new semiconductor technology developed by Sony Corporation. USB2.0 is used as the data transfer interface.

BUC4C series CCD cameras come with advanced video & image processing application ImageView; Providing Windows/Linux/OSX multiple platform SDK; Native C/C++, C#/VB.NET, DirectShow, Twain Control API;

The BUC4C series CCD cameras can be widely used in bright field, dark field, fluorescent light environment for microscope image capture and analysis.

### **Features**

The BUC4C's basic characteristic is as follows:

- 1. Standard C-Mount camera with SONY Super HAD CCD 0.8~5.2M sensor;
- 2. USB2.0 interface ensuring high speed data transmission;
- 3. Ultra-Fine color engine with perfect color reproduction capability;
- 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.

## **BUC4C Datasheet**

Order Code	Sensor & Size(mm)	Pixel Size(µm)	G Sensitivity  Dark Signal	FPS/Resolution	Binning	Exposure
	5.2M/ICX655AQ(C)	012C(pa11)	420mv with 1/30s	4.3@2448x2050	1x1	0.22ms~60s
BUC4C-520C	2/3" (8.44x7.07)	3.45x3.45	4mv with 1/30s	10.5@960x720		
BUC4C-510C	5.1M/ICX452AQ(C)		260mv with 1/30s	4@2592x1944	1x1, 2x2	0.212ms~77ms
	1/1.8" (7.19x5.39)	2.775x2.775	16mv with 1/30s	35@560x420		
DUCAC FOOC	5.0M/ICX282AQ(C)	2.40.2.40	280mv with 1/30s	4.5@2560x1920	1x1, 2x2	0.203ms~60s
BUC4C-500C	2/3" (8.70x6.53)	3.40x3.40	16mv with 1/30s	9@1280x960		
BUC4C-200C	2.0M/ICX274AQ(C)	4.40x4.40	420mv with 1/30s	10@1600x1200	1x1	0.135ms~60s
BUC4C-200C	1/1.8" (7.04x5.28)	4.40X4.40	8mv with 1/30s			
BUC4C-140BC	1.4M/ICX205AK(C)	4.65x4.65	400mv with 1/30s	15@1360x1024	1x1	0.127ms~60s
BUC4C-140BC	1/2" (6.32x4.76)	4.03,4.03	16mv with 1/30s			
BUC4C-140M	1.4M/ICX205AL(M)	4.65x4.65	450mv with 1/30s	15@1360x1024	1x1	0.127ms~60s
BUC4C-140IVI	1/2" (6.32x4.76)	4.0384.03	16mv with 1/30s			

C:Color; M:Monochrome;

Other Specification for BUC4C		
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 and Labview	
Recording System	Still Picture and Movie	
Cooling System*	Natural	
Operating Environment	·	
Operating Temperature(in	100 50	
Centigrade)	-10~ 50	
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 <sup>®</sup> Windows <sup>®</sup> XP / Vista / 7 / 8 /10 (32 & 64 bit)	
Operating System	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 BUC4C**

The BUC4C body, made from tough, zinc 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 BUC4C

## **Packing Information of BUC4C**



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 (0.67~0.8Kg/ box)	
С	BUC4C series camera	





D	High-speed USB2.0 A male to B male gold-plated connectors cable /2.0m			
E	CD (Driver & utilities software, Ø12cm)			
Optional	Optional Accessory			
F		C-mount to Dia.23.2mm eyepiece tube		
	Adjustable lens adapter	(Please choose 1 of them for your microscope)		
		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)		
		C-mount to Dia.31.75mm eyepiece tube		
G		(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) ,			
	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)/Adaptor rings for 30mm eyepiece tube			
- 1	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			
		06011/TS-M1(X=0.01mm/100Div.);		
K	Calibration kit 1	06012/TS-M2(X,Y=0.01mm/100Div.);		
	1	06013/TS-M7(X=0.01mm/100Div., 0.10mm/100Div.)		

# **Extension of BUC4C 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			
Telescope Camera			





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