



BUC5E Series USB3.0 CMOS Digital Cameras





Introduction

BUC5E series cameras adopt SONY Exmor CMOS sensor as the image capture device and USB3.0 is used as the data transfer interface.

BUC5E hardware resolutions range from 2.3MP to 20MP and come with the integrated CNC aluminum alloy compact housing.

BUC5E 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 BUC5E can be widely used in bright field light environment and microscope image capture and analysis with higher frame rate.

Features

The basic characteristic of BUC5E cameras are as follows:

- 1. SONY Exmor, Exmor R(Back-illuminated), Exmor RS CMOS sensor with USB3.0 interface;
- 2. Real-time 8/12/14/16bit depth switch(depending on sensor);
- 3. Super high sensitivity up to 1120mV(IMX185);
- 4. Ultra low noise and low power dissipation by using column-parallel A/D conversion;
- 5. With hardware resolution among 2.3M to 20M;
- 6. Rolling Shutter or Global Shutter;





- 7. Standard C-Mount camera;
- 8. CNC aluminum alloy housing;
- 9. USB3.0 5 Gbps interface ensuring high frame rates;
- 10. With advanced video & image processing application ImageView;
- 11. Providing Windows/Linux/Mac OS multiple platforms SDK;
- 12. Native C/C++, C#/VB.Net, DirectShow, Twain, LabView.

Specification

Order Code	Sensor & Size(mm)	Pixel(µm)	G Sensitivity	FPS/Resolution	Binning	Exposure
Order code	Scrisor & Size(min)	Γιλει(μιτι)	Dark Signal	FF3/Resolution	Diffilling	Exposure
				17.5@5440x3648	1x1,	
BUC5E-2000M	20M/IMX183(M)	2.4 x2.4	776mv with 1/30s	40@4080x2160	1x1, 2x2,	0.1ms~60s
BUCSE-2000IVI	1 "(13.06x8.76)		0.21mv with 1/30s	48@2736x1824		0.11115 005
				60@1824x1216	3x3	
	2004/042/47/6	1.2 x1.2	130mv with 1/30s 0.1mv with 1/30s	5.2@5200x3888	1x1,	0.1ms~15s
BUC5E-2000BC	20M/IMX147(C)			15@2592x1944	2x2,	
	1/2.3 "(6.24x4.67)			30@1728x1296	3x3	
DUCEE 422014	12.3M/IMX304(M)	3.45 x3.45	1146mv with 1/30s	23.4@4096x3000	1x1,	0.244ms~15s
BUC5E-1230M	1.1 "(14.13x10.35)		0.1mv with 1/30s	46.3@2048x1500	1x1,	
BUC5E-1200C	12M/IMX226(C)	1.85x1.85	280mv with 1/30s	7.1@4000x3000	1x1, 2x2	0.244ms~2000
	1/1.7"(7.40x5.55)		0.1mv with 1/30s	30@2048x1080		ms
DU 055 6000	6.3M/IMX178(C)	2.4x2.4	425mv with 1/30s	15@3072 x2048	1x1, 2x2	0.244ms~2000
BUC5E-630C	1/1.8" (7.37x4.92)		0.15mv with 1/30s	26@1536x 1024		ms
DU 075 C0014	6.3M/IMX178(M)	2.4x2.4	425mv with 1/30s	30@3072 x2048	1x1, 2x2	0.244ms~2000
BUC5E-630M	1/1.8" (7.37x4.92)		0.15mv with 1/30s	50@1536x 1024		ms
D	5.0M/IMX264(M, GS)	2.452.45	915mv with 1/30s	35@2448x2048	1x1, 2x2	0.1ms~60s
BUC5E-500M	2/3" (8.45x7.07)	3.45x3.45	0.15mv with 1/30s	60@1224x1024		
	3.1M/IMX123(C)	2.5x2.5	600mv with 1/30s	25@2048x1536		0.244ms~2000
BUC5E-310C	1/2.8" (5.12x3.84)		0.15mv with 1/30s	30@1920x1080	1x1	ms
511055 0404	3.1M/IMX265(M, GS)	3.45x3.45	1146mv with 1/30s	53@2048x1536	1x1	0.4 5:45
BUC5E-310M	1/1.8" (7.07x5.30)		0.15mv with 1/30s	85@1024x768	1x1	0.1ms~15s
	2.3M/IMX185(C)	3.75x3.75	1120mv with 1/30s	38@1920x1200	1x1, 2x2	0.244ms
BUC5E-230C	1/1.9" (7.20x4.50)		0.15mv with 1/30s	66@960x600		~2000ms
	2.3M/IMX249(C,GS)	5.86x5.86	1016mv with 1/30s	30@1920x1200	1x1	0.244ms~2000
BUC5E-231C	1/1.2" (11.25x7.03)		0.15mv with 1/30s			ms
	2.3M/IMX174(M, GS)		1016mv with 1/30s	420.04020.4555		0.244ms~2000
BUC5E-231M	1/1.2" (11.25x7.03)	5.86x5.86	0.15mv with 1/30s	120@1920x1200	1x1	ms
	1.5M/IMX273(M, GS)	3.45x3.45	1830mv with 1/30s	228@1440x1080	1x1 2x2	
BUC5E-150M	1/2.9" (4.968x3.726)		0.15mv with 1/30s	530@720x540		0.1ms~60s





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BUC5E-120C	1.2M/IMX224(C)	3.75 x3.75	2040mv with 1/30s	60@1280x960	1x1,	0.105ms~15s
B0C3E-120C	1/3"(4.80x3.60)		0.15mv with 1/30s	120@640x480	2x2	0.1031115 135

C: Color; M: Monochrome; GS: Global Shutter

Other Specification for BUC5E 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 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 BUC5E

The BUC5E 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 BUC5E

Packing Information for BUC5E



Packing Information of BUC5E

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 (0.58~0.6Kg/ box)				
С	BUC5E 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	Adjustable lens adapter C-mount to Dia.23.2mm eyepiece tube				
		(Please choose 1 of them for your microscope)			





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		C-mount to Dia.31.75mm eyepiece tube		
		(Please choose 1 of them for your telescope)		
	Fixed lens adaptor	C-mount to Dia.23.2mm eyepiece tube		
		(Please choose 1 of them for your microscope)		
G		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), 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)/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			
	Calibration kit	106011/TS-M1(X=0.01mm/100Div.);		
K		106012/TS-M2(X,Y=0.01mm/100Div.);		
		106013/TS-M7(X=0.01mm/100Div., 0.10mm/100Div.)		

Extension of BUC5E with Microscope or Telescope Adapter

Extension	Picture		
C-mount Camera	CANTION CE SANCE PROCESSOR FROM	Machine vision; Medical imaging; Semiconductor equipment; Test instruments; Document scanners; 2D barcode readers; Web camera and security video; Microscope imaging;	
Microscope Camera	23.2mm Adjustable Adapter	23.2mm Fixed Adapter	
Telescope Camera	31.75mm Adjustable Adapte	31.75mm Fixed Adapter	

Sample Image







