## **XCG-C Series**

## **Digital Video Camera Module**

Sony is expanding its popular XCG GigE® Vision Series of interface cameras with the introduction of six new compact cameras.





New support functions of GigE Vision
Extended ID 64-bit (GigE Vision 2.0) Increase the numbering of captured images
Chunk data Metadata transfer
Event reporting Transferring information on triggers and more
Flow control (Control the transferring data)



XCG-C130/130C XCG-C32/32C XCG-C30/30C

Available in both colour and black & white, the new XCG Cubic GigE Series includes a PoE capability to provide users with the convenience of single-cable operation for power and control. In addition, this new range contains a number of advanced new features including enhanced frame rate performance and low trigger latency capabilities.

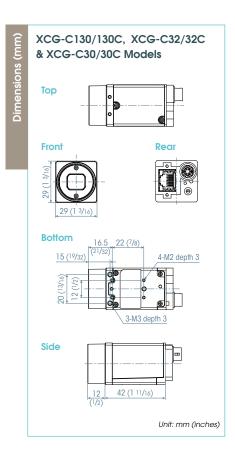
The new XCG Cubic GigE Series from Sony brings the best of Sony's imaging technology to the industrial vision market.

	XCG-C130/130C	XCG-C32/32C	XCG-C30/30C
Progressive Scan IT CCD	1/3-type	1/2-type	1/3-type
Cell Size (H) x (V)	3.75 x 3.75 µm	9.9 x 9.9 μm	7.4 x 7.4 µm
Standard Picture Size (H) x (V)	1,280 x 960	640 x 480	640 x 480
Frame Rate	31 fps	104 fps	130 fps

## **XCG-C Series Models** Specifications

Camera	XCG-C130	XCG-C130C	XCG-C32	XCG-C32C	XCG-C30	XCG-C30C
Image Sensor	1/3-type prog C0	ressive scan IT CD		ressive scan IT CD		ressive scan IT CD
Image Sensor (Number of Effective Pixels, H x V)	1,296 x 966		659 x 494		659 x 494	
Cell Size (H x V)	3.75 μm x 3.75 μm		9.9 μm x 9.9 μm		7.4 μm x 7.4 μm	
Output Pixels (H x V)	1,280 x 960		640 x 480		640 x 480	
Output Pixels (H x V, Full Resolution)	1,296 x 966		658 x 494		658 x 494	
Colour Filter	-	RGB colour mosaic filter	-	RGB colour mosaic filter	-	RGB colour mosaic filter
Frame Rate	31	•	. ,	Non-PoE)		Non-PoE)
Minimum Illumination (50%)	0.5 lx (Iris: F1.4, Gain: +18 dB, Shutter: 1/30 s)	12 lx (Iris: F1.4, Gain: +18 dB, Shutter: 1/30 s)	1.0 lx (Iris: F1.4, Gain: +18 dB, Shutter: 1/60 s)	12 lx (Iris: F1.4, Gain: +18 dB, Shutter: 1/60 s)	1.5 lx (Iris: F1.4, Gain: +18 dB, Shutter: 1/90 s)	15 lx (Iris: F1.4, Gain: +18dB, Shutter: 1/90 s)
Sensitivity	F5.6 (400 lx, Gain: 0 dB)	F5.6 (2000 lx, Gain: 0 dB)	F5.6 (400 lx, Gain: 0 dB)	F5.6 (2000 lx, Gain: 0 dB)	F5.6 (400 lx, Gain: 0 dB)	F5.6 (2000 lx, Gain: 0 dB)
S/N Ratio			More the	an 50 dB		
Gain			Auto, Manual:	0 dB to +18 dB	3	
Shutter Speed			2 s to 1/1	00,000 s		
White Balance	_	One push WB, Manual	-	One push WB, Manual	_	One push WB, Manual
Camera Features						
Readout Modes	Normal, Binning (2 x 1, 1 x 2, 2 x 2), Partial scan	Normal, Partial scan	Normal, Binning (2 x 1, 1 x 2, 2 x 2), Partial scan	Normal, Partial scan	Normal, Binning (2 x 1, 1 x 2, 2 x 2), Partial scan	Normal, Partial scan
Readout Features		Binarization, Gamma (variable), Built-in test pattern, LUT				
Synchronization		Hardware trigger, Software trigger				
Trigger Modes	Edq	ge detection, Pu	ulse width detec	tion, Bulk trigger	r, Sequential trig	ger
User Set/Memory Channel		16 channels				
User Memory				4 bytes x 16ch		
Image Buffer			1	BD		
Other Features	Temperatu	re readout	Tem	perature reado	ut, Sensitivity co	ntrol
Interface  Video Data Output	8, 10, 12-bit, digital	8, 10, 12-bit, Raw, digital, RGB Colour, YUV422, YUV444	8, 10, 12-bit, digital	8, 10, 12-bit, Raw, digital, RGB Colour, YUV422, YUV444	8, 10, 12-bit, digital	8, 10, 12-bit, Raw, digital, RGB Colour, YUV422, YUV444
Digital Interface			Gigabit Ethernet (1000BASE-T)		I.	
Camera Specification			GigE Vision® Version 2.0 / 1.2			
Digital Input/Output		ISO	IN (x1), ISO OUT	(x1), TTL IN/OUT	(x2)	
General						
Lens Mount	C mount					
Power Requirements	DC +12 V (+10.5 V to +15.0 V)					
Power over Ethernet		IEEE802.3af				
Power Consumption		TBD				
Operating Temperature	-5°C to +45°C 23°F to 113°F					
Performance Guarantee Temperature	0°C to 40°C 32°F to 104°F					
Storage Temperature	-30°C to +60°C -22°F to +140°F					
Operating Humidity	20% to 80% (no condensation)					
Storage Humidity	20% to 95% (no condensation)					
Vibration Resistance	10 G (20 Hz to 200 Hz)					
Shock Resistance	70 G					
Dimensions (W X H X D)	29 x 29 x 42 mm (excluding protrusions) w1 3/16 x 1 3/16 x 1 5/8 inches (excluding protrusions)					
Mass	UII (00F0 3 F0	C Clare 1 CC1		Clares A Dissitual F	Davida a OF: FN1	120/ (01 1)
Regulations	ULOUY5U-1, FC	ASI	EMC: EN61326,	Class A Digital E VCCI Class A, K	CC	1320 (Class A),
Supplied Accessories		Lens m	ount cap (1), O	perating Instruct	tions (1)	

Pin assignments	6-pin co	6-pin connector		
Ĕ	Pin No.			
g	1	DV 12 V		
ISSI	2	ISO IN+ (TRG)		
<u>=</u>	3	IN/OUT		
<u>a</u>	4	IN/OUT		
	5	ISO IN-		
	6	GND		





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