

# XC Series Function Chart

## Digital Video Camera Function Chart (GS CMOS)

Interface		Polarization Camera	CameraLink					
Functions	Model	XCG-CP510	XCL-SG1240	XCL-SG1240C	XCL-SG510	XCL-SG510C	XCL-CG510	XCL-CG510C
Category	B/W	●	●		●		●	
	Color	RAW			●		●	●
		RGB						●
		YUV						
Image device	Progressive Scan	●	●	●	●	●	●	
GS CMOS	Image Sensor Type	IMX250 (Polarization image sensor)	IMX304	IMX304	IMX250	IMX250	IMX264	IMX264
	Square Pixel	●	●	●	●	●	●	●
	1.1-type		●	●				
	1/1.2-type							
	2/3-type	●			●	●	●	●
	1/2.9-type							
Image size		5.1 MP	12.4 MP	12.4 MP	5.1 MP	5.1 MP	5.1 MP	5.1 MP
Frame rate		23 fps	20 fps	20 fps	154 fps	154 fps	35 fps	35 fps
Near infrared ray measures		●	●		●		●	
Lens Mount		C	C	C	C	C	C	C
Read out mode	Normal	●	●	●	●	●	●	●
	Binning		●		●		●	
	Sensor output 1ch	●	●	●	● (Multi ROI)	● (Multi ROI)	●	●
Shutter	Normal	●	●	●	●	●	●	●
	External trigger shutter	Edge detection (Exposure time setting internal)	●	●	●	●	●	●
		Exposure time setting by trigger width	●	●	●	●	●	●
Trigger	S/W Trigger	●	●	●	●	●	●	●
	Bulk Trigger	●			●	●	●	●
	Sequential Trigger	●			●	●	●	●
	Burst Trigger	●	●	●	●	●	●	●
	Freeet Sequence	●						
	Trigger delay	●	●	●	●	●	●	●
	Trigger range	●	●	●	●	●	●	●
White Balance	AWB							
	One Push			●		●		●
	Preset							
	Manual			●		●		●
IEEE1588		●						
Area gain		●	●	●	●	●	●	
Area exposure					●	●		
Wide dynamic range					●	●		
Frame accumulation					●	●		
Image flip		●	●	●	●	●	●	
Long exposure		●	●	●	●	●	●	
AGC		●	●	●	●	●	●	
AE		●	●	●	●	●	●	
Shading Correction		●	●	●	●	●	●	
Defect Correction		●	●	●	●	●	●	
Temperature Readout		●	●	●	●	●	●	
3 X 3 Filter			●	●	●	●	●	
LUT			●	●	●	●	●	
Negative/Positive Reversal			●	●	●	●	●	
Memory Shot		●						
RS-232C Control			●	●	●	●	●	
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# XC Series Function Chart

## Digital Video Camera Function Chart (GS CMOS)

Interface		GigE Vision						USB3 Vision	
Model		XCG-CG510	XCG-CG510C	XCG-CG240	XCG-CG240C	XCG-CG160	XCG-CG160C	XCU-CG160	XCU-CG160C
Category	B/W	●		●		●		●	
	Color	RAW		●		●		●	●
		RGB		●		●		●	●
		YUV		●		●		●	●
Image device	Progressive Scan	●	●	●	●	●	●	●	
GS CMOS	Image Sensor Type	IMX264	IMX264	IMX249	IMX249	IMX273	IMX273	IMX273	IMX273
	Square Pixel	●	●	●	●	●	●	●	●
	1.1-type								
	1/1.2-type			●	●				
	2/3-type	●	●						
	1/12.9-type					●	●	●	●
Image size		5.1 MP	5.1 MP	2.4 MP	2.4 MP	1.6 MP	1.6 MP	1.6 MP	1.6 MP
Frame rate		23 fps	23 fps	41 fps	41 fps	75 fps	75 fps	100 fps	100 fps
Near infrared ray measures		●		●		●		●	
Lens Mount		C	C	C	C	C	C	C	C
Read out mode	Normal	●	●	●	●	●	●	●	●
	Binning					●		●	
	Sensor output 1ch	●	●	●	●	● (Multi ROI)	● (Multi ROI)	● (Multi ROI)	● (Multi ROI)
Shutter	Normal	●	●	●	●	●	●	●	●
	External trigger shutter	Edge detection (Exposure time setting internal)	●	●	●	●	●	●	●
		Exposure time setting by trigger width	●	●	●	●	●	●	●
Trigger	S/W Trigger	●	●	●	●	●	●	●	●
	Bulk Trigger	●	●	●	●	●	●		
	Sequential Trigger	●	●	●	●	●	●		
	Burst Trigger	●	●	●	●	●	●	●	●
	Freeet Seaquence	●	●	●	●	●	●		
	Trigger delay	●	●	●	●	●	●	●	●
	Trigger range	●	●	●	●	●	●	●	●
White Balance	AWB		●		●		●		●
	One Push		●		●		●		●
	Preset								
	Manual		●		●		●		●
IEEE1588		●	●	●	●	●	●		
Area gain		●	●	●	●	●	●	●	
Area exposure									
Wide dynamic range									
Frame accumulation									
Image flip		●	●	●	●	●	●	●	●
Long exposure		●	●	●	●	●	●	●	●
AGC		●	●	●	●	●	●	●	●
AE		●	●	●	●	●	●	●	●
Shading Correction		●	●	●	●	●	●	●	●
Defect Correction		●	●	●	●	●	●	●	●
Temperature Readout		●	●	●	●	●	●	●	●
3 X 3 Filter		●	●	●	●	●	●	●	●
LUT		●	●	●	●	●	●	●	●
Negative/Positive Reversal		●	●	●	●	●	●	●	●
Memory Shot		●	●	●	●	●	●		
RS-232C Control									
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Polarization Camera  
XCL  
XCG  
XCU

Digital Video Camera (GS CMOS)  
XCL

Digital Video Camera (CCD)  
Accessories

Color Camera Block  
FCB-4K  
FCB-HD

# XC Series Function Chart

## Digital Video Camera Function Chart (CCD)

Interface		CameraLink							
Functions	Model	XCL-S900	XCL-S900C	XCL-C280	XCL-C280C	XCL-C130	XCL-C130C	XCL-C30	XCL-C30C
Category	B/W	●		●		●		●	
	Color	RAW		●		●		●	
		RGB		●		●		●	
		YUV							
Image device	Progressive Scan	●	●	●	●	●	●	●	
CCD	Square Pixel	●	●	●	●	●	●	●	●
	1/1-type	●	●						
	1/3-type					●	●	●	●
	1/2-type								
	1/1.8-type			●	●				
	2/3-type								
Image size		9 MP	9 MP	2.8 MP	2.8 MP	SXGA	SXGA	VGA	VGA
Frame rate	Sensor output 4ch*1	18 fps	18 fps						
	Sensor output 2ch*1	9 fps	9 fps	26 fps	26 fps				
	Sensor output 1ch	5 fps	5 fps	15 fps	15 fps	31 fps	31 fps	130 fps	130 fps
Near infrared ray measures		●		●		●			
Lens Mount		C	C	C	C	C	C	C	C
Read out mode	Normal	●	●	●	●	●	●	●	●
	Binning	●		●		●		●	
	Partial scanning	●	●	●	●	●	●	●	●
Shutter	Normal	●	●	●	●	●	●	●	●
	External trigger shutter	Edge detection (Exposure time setting internal)	●	●	●	●	●	●	●
		Exposure time setting by trigger width	●	●	●	●	●	●	●
Trigger	S/W Trigger	●	●	●	●	●	●	●	●
	Bulk Trigger	●	●	●	●	●	●	●	●
	Sequential Trigger	●	●	●	●	●	●	●	●
	Trigger delay	●	●	●	●	●	●	●	●
	Trigger range	●	●	●	●	●	●	●	●
White Balance	AWB								
	One Push		●		●		●		●
	Preset								
	Manual		●		●		●		●
Long exposure		●	●	●	●	●	●	●	●
AGC		●	●	●	●	●	●	●	●
AE		●	●	●	●	●	●	●	●
Shading Correction		●	●	●	●	●	●	●	●
Defect Correction		●	●	●	●	●	●	●	●
Temperature Readout		●	●	●	●	●	●	●	●
3 X 3 Filter		●	●	●	●	●	●	●	●
LUT		●	●	●	●	●	●	●	●
Negative/Positive Reversal		●	●	●	●	●	●	●	●
Memory Shot									
RS-232C Control		●	●	●	●	●	●	●	●
See page		60	60	66	66	66	66	66	66

\*1: Default setting

Digital Video Camera (GS CMOS)  
Polarization Camera  
XCL XCG XCU

Digital Video Camera (CCD)  
XCL

Accessories

Color Camera Block  
FCB-4K FCB-HD