

# XC Series Function Chart

## Digital Video Camera Function Chart (GS CMOS)

Interface			CameraLink							
Functions		Model	XCL-SG1240	XCL-SG1240C	XCL-SG510	XCL-SG510C	XCL-CG510	XCL-CG510C	XCL-CG160	XCL-CG160C
Category	B/W		●		●		●		●	
	Color	RAW		●		●		●		●
		RGB						●		●
		YUV								
Image device	Progressive Scan	●	●	●	●	●	●	●	●	
GS CMOS	Image Sensor Type		IMX304	IMX304	IMX250	IMX250	IMX264	IMX264	IMX273	IMX273
	Square Pixel		●	●	●	●	●	●	●	●
	1.1-type		●	●						
	1/1.2-type									
	2/3-type				●	●	●	●		
	1/2.9-type								●	●
Image size		12.4 Mega	12.4 Mega	5.1 Mega	5.1 Mega	5.1 Mega	5.1 Mega	1.6 Mega	1.6 Mega	
Maximum frame rate		20 fps	20 fps	154 fps	154 fps	35 fps	35 fps	127 fps	127 fps	
Near infrared ray measures		●		●		●		●		
Lens Mount		C	C	C	C	C	C	C	C	
Read out mode	Normal		●	●	●	●	●	●	●	●
	Binning		●		●		●		●	
	Decimation								●	●
	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		●	●	●	●	●	●	●	●	

# XC Series Function Chart

## Digital Video Camera Function Chart (GS CMOS)

Interface		Polarization Camera	GigE Vision							USB3 Vision		
			Model	XCG-CP510/CL XCG-CP510	XCG-CG510	XCG-CG510C	XCG-CG240	XCG-CG240C	XCG-CG160	XCG-CG160C	XCG-CG40	XCU-CG160
Category	B/W		●	●		●		●		●		
	Color	RAW			●		●		●			●
		RGB			●		●		●			●
		YUV			●		●		●			●
Image device	Progressive Scan		●	●	●	●	●	●	●	●	●	
GSCMOS	Image Sensor Type	Polarization image sensor		IMX264	IMX264	IMX249	IMX249	IMX273	IMX273	IMX287	IMX273	IMX273
	Square Pixel		●	●	●	●	●	●	●	●	●	●
	1.1-type											
	1/1.2-type				●	●						
	2/3-type		●	●	●							
	1/2.9-type						●	●	●	●	●	
Image size		5.1 Mega	5.1 Mega	5.1 Mega	2.4 Mega	2.4 Mega	1.6 Mega	1.6 Mega	0.4 Mega	1.6 Mega	1.6 Mega	
Maximum frame rate		23 fps	23 fps	23 fps	41 fps	41 fps	75 fps	75 fps	300 fps	100 fps	100 fps	
Near infrared ray measures		●	●		●		●		●	●		
Lens Mount		C	C	C	C	C	C	C	C	C	C	
Read out mode	Normal		●	● <sup>*1</sup>	●	● <sup>*1</sup>	●	●	●	●	●	●
	Binning			●		●		●				●
	Quarter mode				●		●		●			
	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 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												

\*1 Applied from serial number No.3203001. The frame rate does not change.

# XC Series Function Chart

## Digital Video Camera Function Chart (CCD)

Interface							
Functions	Model	XCL-C280	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		2.8 Mega	SXGA	SXGA	VGA	VGA	
Maximum frame rate	Sensor output 4ch*1						
	Sensor output 2ch*1	26 fps					
	Sensor output 1ch	15 fps	31 fps	31 fps	130 fps	130 fps	
Near infrared ray measures		●	●				
Lens Mount		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		●	●	●	●	●	

\*1: Default setting