

CK-REN2X-1230M/CI-9GS

12 MP CMOS GigE Area Scan Camera



Features

- Binning, Decimation, Gamma, Digital Shift, Black Level, Static Defect Pixel Correction, Sharpness
- Timer, Counter, LUTs and User Set Control
- Color models support Light source preset, Color Transformation Control and Saturation
- Monochrome models support Noise Reduction
- Remove Parameter Limit to expand the range of exposure, gain, white balance, and so on
- 16KB data storage area for saving algorithm coefficients and parameter configuration

Applications

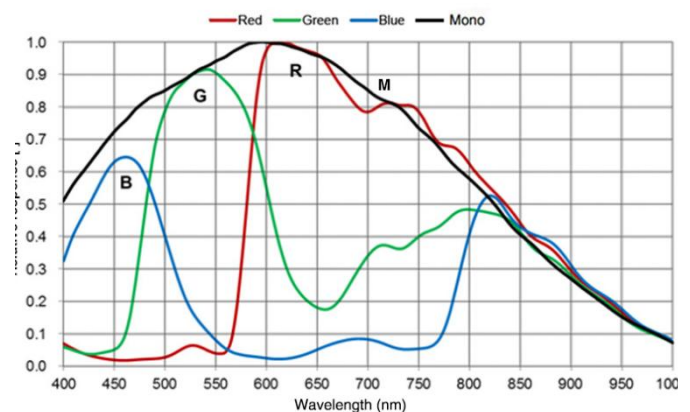
Suitable for machine vision applications such as industrial inspection, medical, scientific research, education and so on.

I/O Interface



Pin	Definition	Description
1	Line 0+	Opto-isolated input +
2	GND	PWR GND & GPIO GND
3	Line 0-	Opto-isolated input -
4	POWER_IN	Camera external power, +12V DC~+24V DC
5	Line 2	GPIO input/output
6	Line 3	GPIO input/output
7	Line 1-	Opto-isolated output -
8	Line 1+	Opto-isolated output +

Spectral Response



Models

Mono: CK-REN2X-1230MI-9GS
Color: CK-REN2X-1230CI-9GS

Specifications

Model	CK-REN2X-1230CI-9GS	CK-REN2X-1230MI-9GS
Resolution	4096(H) × 3000(V)	
Sensor	Sony IMX304 Global shutter CMOS	
Sensor Format	1.1"	
Pixel Size	3.45μm × 3.45μm	
Frame Rate	9 fps	
ADC	12 bit	
Pixel Bit Depth	8 bit, 12 bit	
Mono/Color	Color	Mono
Pixel Formats	Bayer RG8 / Bayer RG12	Mono8 / Mono12
SNR	40.48 dB	40.66 dB
Exposure Time	UltraShort: 1μs~100μs, Actual Steps: 1μs; Standard: 36μs~1s, Actual Steps: 1 row period	
Gain	0dB~24dB, Default: 0dB, Steps: 0.1dB	
Binning	1 × 1, 1×2, 1×4, 2 × 1, 2×2, 2×4, 4 × 1, 4×2, 4×4	
Decimation	FPGA: 1 × 1, 1×2, 1×4, 2 × 1, 2×2, 2×4, 4 × 1, 4×2, 4×4	
Synchronization	Hardware trigger, software trigger, IEEE1588V2(PTP), Action、Schedule Action	
Acquisition Control	Single frame, Continuous, Software trigger, Hardware trigger	
Reverse X/Y	Reverse X/Y	
I/O Interface	1 input and 1 output with opto-isolated, 2 programmable GPIOs	
Data Interface	GigE PoE	
Power Supply	PoE (Power over Ethernet, IEEE802.3af compliant) or 12VDC-10% ~ 24VDC+10% supplied via the camera's 8-pin Hirose connector	
Typical Power	2.82 W @ 12 VDC, 3.04 W @ PoE	
Operating Temp.	0°C ~ +45°C	
Storage Temp.	-20°C ~ +70°C	
Operating Humidity	10% ~ 80%	
Lens Mount	C / CS	
Dimensions	36(W) × 31(H) × 50.6(L) mm (without lens adapter or connectors)	
Weight	75 g	
Software	CKVisionBuilder or third-party software meeting with GigE Vision Protocol	
OS	32bit / 64bit Windows, Linux, Mac OS	



Technical Drawing

