

CK-RNE2-161M/CI-75GS(N)

1.6 MP CMOS GigE Area Scan Camera



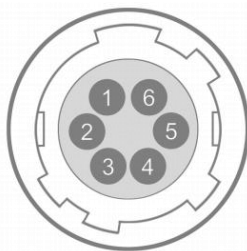
Features

- Trigger mode: Frame Start / Frame Burst Start
- Two exposure time modes: Standard / UltraShort
- Support Gamma, Digital Shift, Black Level
- Counter, LUTs, Decimation, Binning and User Set Control
- Color models support Light source preset, Color Transformation Control and Saturation
- Support 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

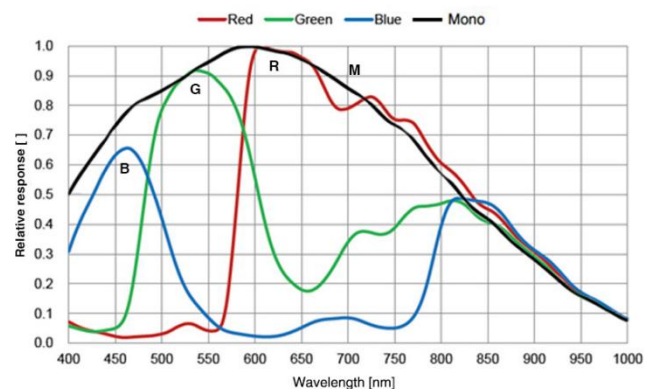
Suitable for machine vision applications such as industrial inspection, medical, scientific research, education and so on.

I/O Interface



Pin	Definition	Description
1	POWER_IN	Camera external power, +12V DC~+24V DC
2	Line0+	Opto-isolated input +
3	Line2	GPIO input/output
4	Line1+	Opto-isolated output +
5	Line0-/Line1-	Line0-: Opto-isolated input - Line1-: Opto-isolated output -
6	GND	PWR GND & GPIO GND

Spectral Response



Models

Mono: CK-RNE2-161MI-75GS(N)

Color: CK-RNE2-161CI-75GS(N)

Specifications

Model	CK-RNE2-161CI-75GS(N)	CK-RNE2-161MI-75GS(N)
Resolution	1440(H) × 1080(V)	
Sensor	Sony Global shutter CMOS	
Sensor Format	1/2.9"	
Pixel Size	3.45μm × 3.45μm	
Frame Rate	75.6 fps	
ADC	10 bit	
Pixel Bit Depth	8 bit, 10 bit	
Mono/Color	Color	Mono
Pixel Formats	Bayer RG8 / Bayer RG10	Mono8 / Mono10
SNR	40.50 dB	40.48 dB
Exposure Time	UltraShort: 1μs ~ 100μs, Actual Steps: 1μs; Standard: 20μs ~ 1s, Actual Steps: 1 row period	
Gain	0dB ~ 24dB; Default: 0dB, Steps: 0.1dB	
Binning	FPGA: 1×1, 1×2, 1×4, 2×1, 2×2, 2×4, 4×1, 4×2, 4×4 Sensor: 1×1, 2×2 (mono model only)	
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	
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, 1 programmable GPIO	
Data Interface	GigE	
Power Supply	12VDC-10% ~ 24VDC+10% supplied via the camera's Hirose connector	
Typical Power	2.24W @ 12VDC	
Operating Temp.	0°C ~ +45°C	
Storage Temp.	-20°C ~ +70°C	
Operating Humidity	10% ~ 80%	
Lens Mount	C / CS	
Dimensions	29(W) × 29(H) × 29(L) mm (without lens adapter or connectors)	
Weight	69 g	
Software	CKVisionBuilder or third-party software meeting with GigE Vision Protocol	
OS	32bit / 64bit Windows, Linux, Mac OS	



Technical Drawing

