RNE2-160M/CI-75GS

1.6 MP CMOS GigE Area Scan Camera

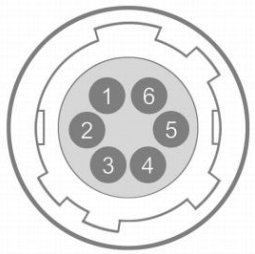
Features

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

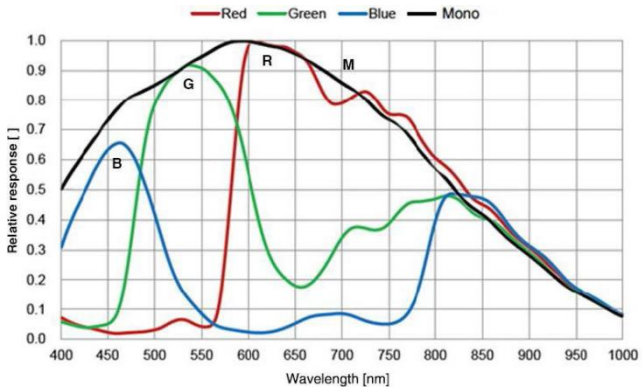
Suitable for machine vision applications such as industrial inspection, medical, scientific research, education and so on.

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



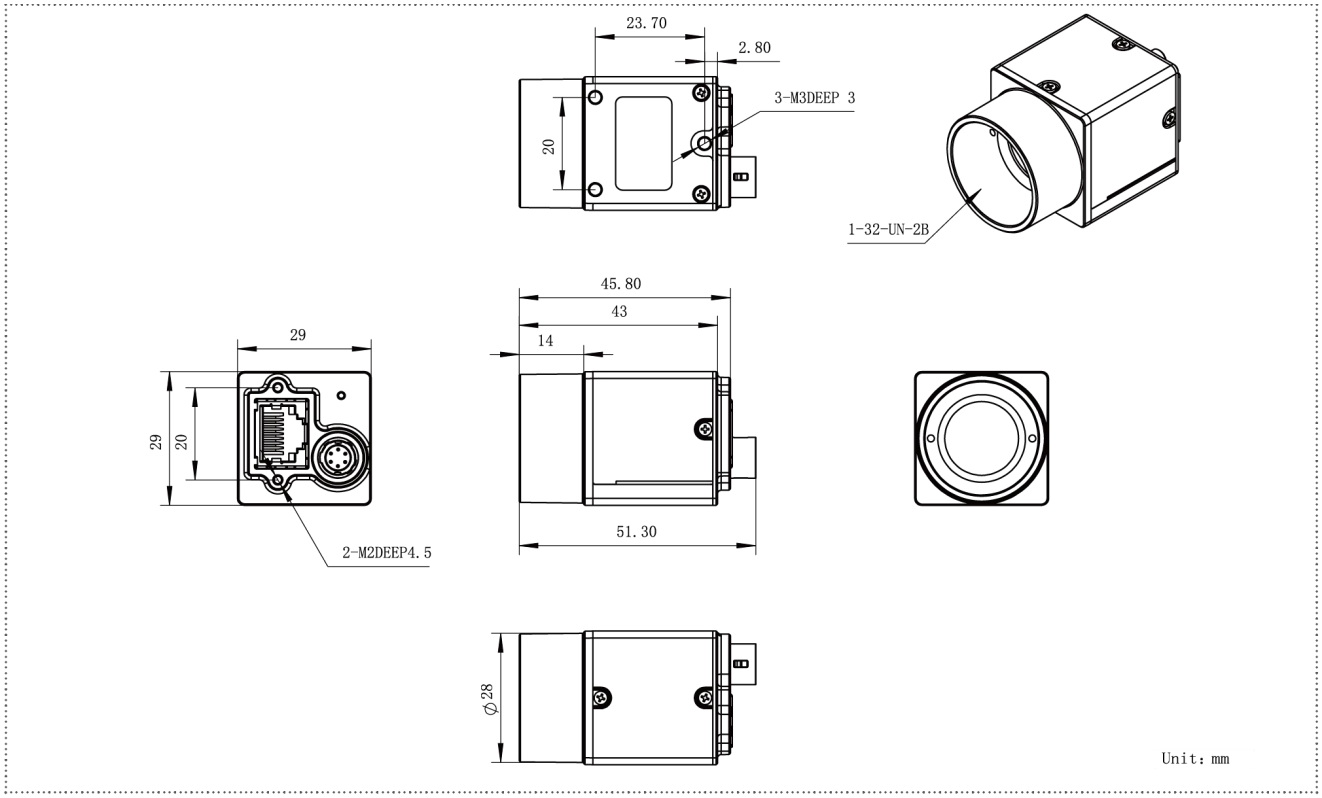
Models

Mono：RNE2-160MI-75GS
Color：RNE2-160CI-75GS

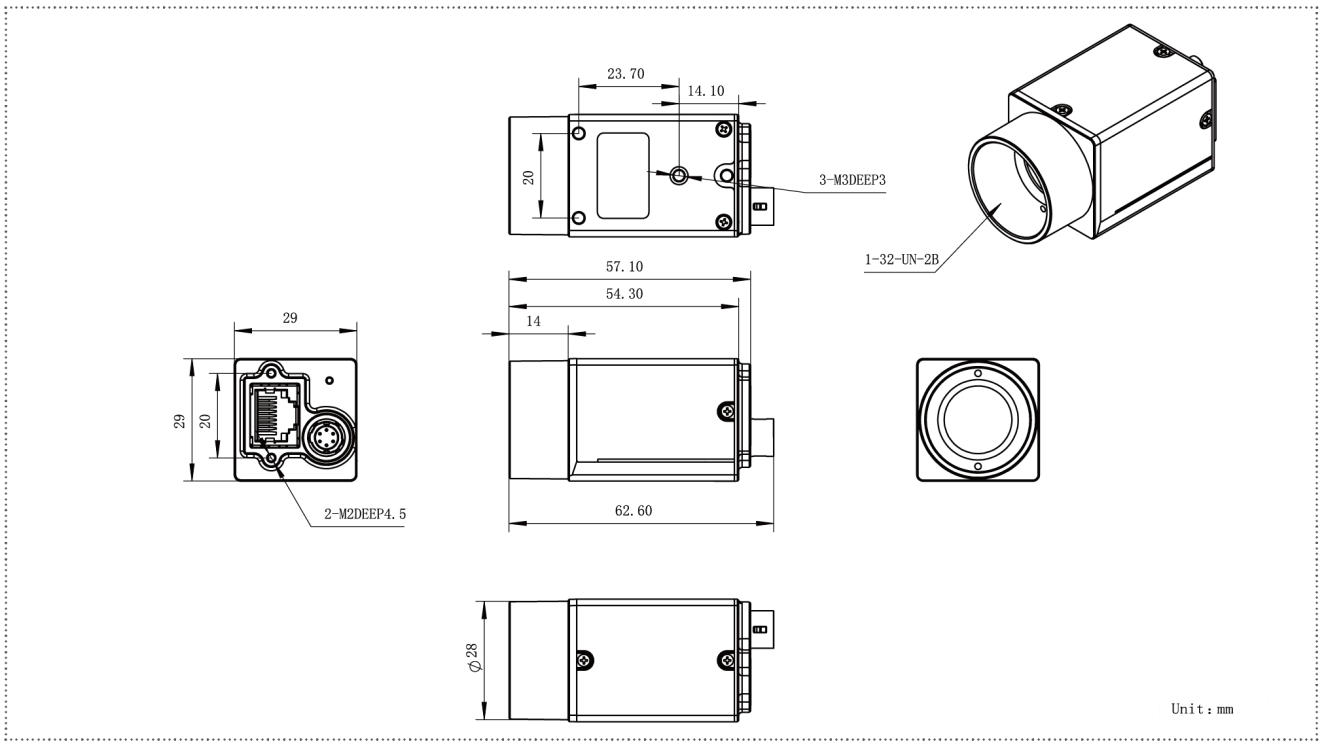
Specifications

Model	RNE2-160CI-75GS		RNE2-160MI-75GS	
Resolution	1440(H) × 1080(V)			
Sensor	Sony IMX273 Global shutter CMOS			
Sensor Format	1/2.9"			
Pixel Size	3.45μm × 3.45μm			
Frame Rate	75.6 fps			
ADC	12 bit			
Pixel Bit Depth	8 bit, 12 bit			
Mono/Color	Color		Mono	
Pixel Formats	Bayer RG8 / Bayer RG12		Mono8 / Mono12	
SNR	40.75 dB	40.76 dB	40.66 dB	40.61 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	—		1×1, 1×2, 2×1, 2×2	
Decimation			FPGA: 1×1, 1×2, 2×1, 2×2	
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	GigE PoE	GigE	GigE PoE
Power Supply	12VDC-10% ~ 24VDC+10% supplied via the camera's Hirose connector PoE is optiona (Power over Ethernet, IEEE802.3af compliant)			
Typical Power	2.32W @ 12VDC	2.32W @ 12VDC 2.66W @ PoE	2.32W @ 12VDC	2.32W @ 12VDC 2.66W @ PoE
Operating Temp.	0°C ~ +45°C			
Storage Temp.	-20°C ~ +70°C			
Operating Humidity	10% ~ 80%			
Lens Mount	C / CS			
Dimensions	No PoE: 29(W) × 29(H) × 29(L) mm (without lens adapter or connectors) PoE: 29(W) × 29(H) × 40.3(L) mm (without lens adapter or connectors)			
Weight	No PoE: 65 g; PoE: 75 g			
Software	Advanced VisionBuilder (AVB) or third-party software meeting with GigE Vision Protocol			
OS	32bit / 64bit Windows, Linux, Mac OS			

Technical Drawing



Size A No PoE



Size B PoE