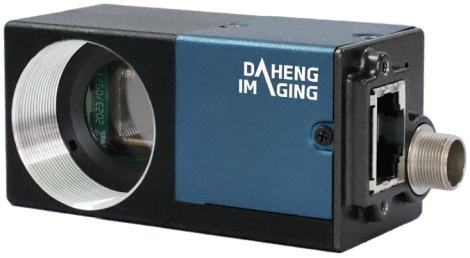
MER2-630-18GM/C-W90-S90

6MP CMOS GigE Area Scan Camera



The MER2-630-18GM/C-W90-S90 camera is a monochrome/color GigE Vision camera with the Sony IMX178 CMOS sensor. The sensor surface is at a 90 degree angle to the Data interface surface. Thanks to the extremely compact (29mm × 29mm), robust metal housings and locking screw connectors, the MERCURY2 cameras can secure the reliability of cameras deployed in harsh environments.

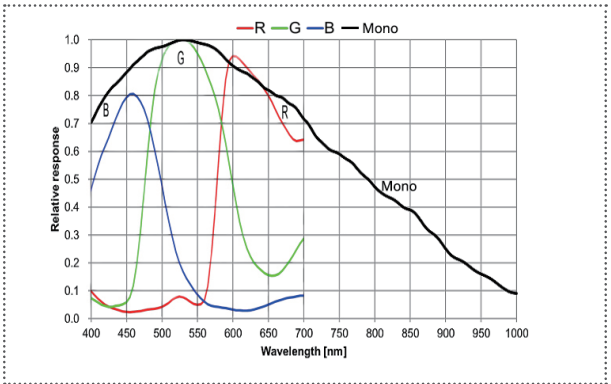
Applications

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

Features

- Auto Gain, Auto Exposure, ROI
- Global Reset Release Shutter exposure (GRR)
- Binning, Decimation
- Timer, Counter, LUTs and User Set Control
- Gamma, Black Level, Digital Shift, Sharpness
- Color models support Light Source Preset, Color Transformation Control, Saturation and White Balance
- Monochrome models support Noise Reduction
- Remove Parameter Limits
- 16KB User Data Area

Spectral Response



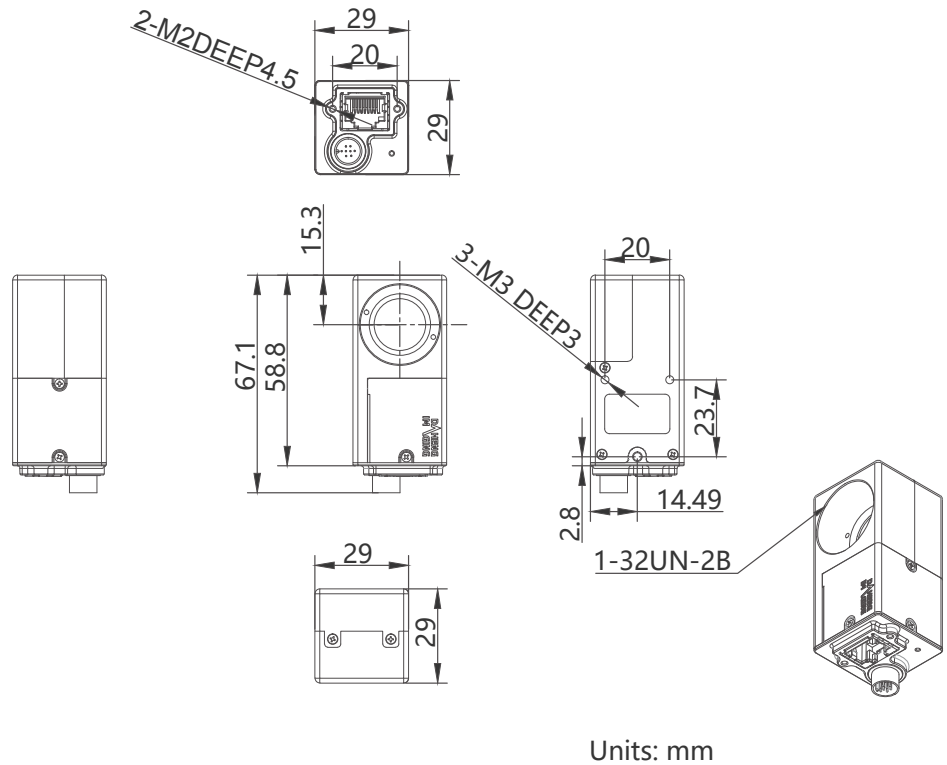
Specifications

Model	MER2-630-18GC-W90-S90	MER2-630-18GM-W90-S90
Resolution	3088(H) × 2064(V)	
Sensor	Sony IMX178 Rolling shutter CMOS	
Sensor Format	1/1.8"	
Pixel Size	2.4μm × 2.4μm	
Frame Rate	18.45 fps	
ADC	12 bit	
Pixel Bit Depth	8 bit, 12 bit	
Mono/Color	Color	Mono
Pixel Formats	Bayer RG8 / Bayer RG12	Mono8 / Mono12
SNR	39.65 dB	39.97 dB
Exposure Time	Standard: 19μs~1s, GRR: 38μs~0.2s, 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, 2 programmable GPIOs	
Data Interface	GigE	
Power Supply	12VDC-10% ~ 24VDC+10% supplied via the camera's Hirose connector	
Power Consumption	< 3 W @ 24 VDC	
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)× 58.8(L) mm (without lens adapter or connectors)	
Weight	80 g	
Software	3rd-party software such as HALCON, VisionPro and LabVIEW	
OS	32bit / 64bit Windows, Linux, Mac OS	
Conformity	CE, RoHS, FCC, ICES, UKCA, GigE Vision®, GenICam®	

I/O Interface

Pin	Definition	Core Color	Description
1	Line 0+	Green	Opto-isolated input +
2	GND	Blue	PWR GND & GPIO GND
3	Line 0-	Grey	Opto-isolated input -
4	POWER_IN	Purple	Camera external power, +12V DC~+24V DC
5	Line 2	Orange	GPIO input/output
6	Line 3	Pink	GPIO input/output
7	Line 1-	White Green	Opto-isolated output -
8	Line 1+	White Blue	Opto-isolated output +

Technical Drawing



China Daheng Group, Inc. Beijing Image Vision Technology Branch

12F Daheng Science & Technology Tower, No.3 Suzhou Street, Haidian District, Beijing China, 100080

Tel: +86 10 82828878

E-mail: isales@daheng-imaging.com