

# MARS-880-13GM-P ETR

## 8.8MP CMOS GigE ETR Camera



MARS-880-13GM-P ETR is a monochrome GigE Vision camera with the Sony IMX267 CMOS sensor. MARS-880-13GM-P ETR can be powered over Ethernet and has opto-isolated I/Os. Thanks to locking screw connectors and extended temperature range, the MARS cameras can secure the reliability of cameras deployed in harsh environments. The MARS series cameras are high reliability and price/performance ratio industrial digital cameras.

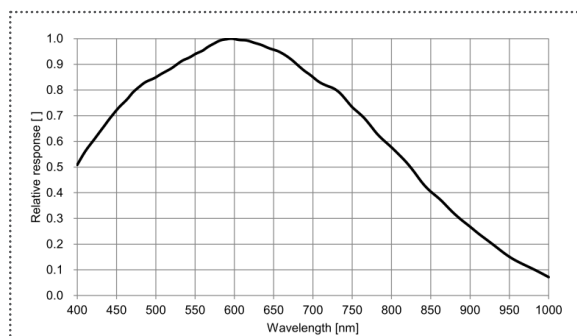
### Applications

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

### Features

- Compact and robust
- Auto Exposure, Auto Gain
- LUT, User Set Control
- Extended temperature range from -40° C to +70° C

### Spectral Response



## Specifications

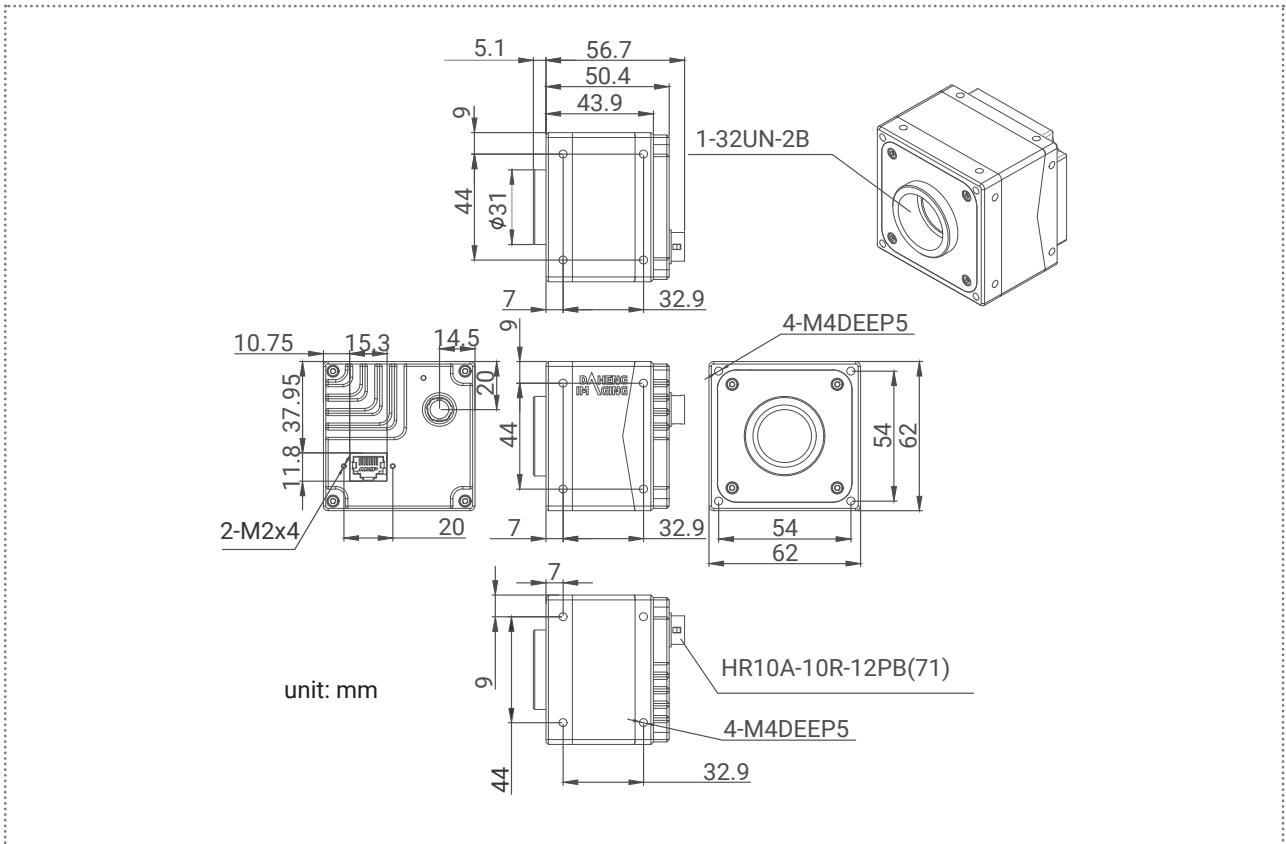
Model	MARS-880-13GM-P ETR
Resolution	4096(H) × 2160(V)
Sensor	Sony IMX267 Global shutter CMOS
Sensor Format	1"
Pixel Size	3.45μm × 3.45μm
Frame Rate	13 fps
ADC	12 bit
Pixel Bit Depth	8 bit, 12 bit
Mono/Color	Mono
Pixel Formats	Mono8 / Mono12
SNR	39.81 dB
Exposure Time	36μs ~ 1s, Actual Steps: 1 row period
Gain	0dB ~ 24dB, Default: 0dB, Step: 0.1dB
Binning	—
Decimation	—
Synchronization	Hardware trigger, software trigger
Acquisition Control	Continuous, Software trigger, Hardware trigger
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 12-pin Hirose connector
Power Consumption	< 3 W @ 12 VDC; < 3.5 W @ PoE
Operating Temp.	-40° C ~ +70° C
Storage Temp.	-40° C ~ +70° C
Operating Humidity	10% ~ 80%
Lens Mount	C
Dimensions	62(W) × 62(H) × 50.4(L) mm (without lens adapter or connectors)
Weight	274 g
Software	3rd-party software such as HALCON, VisionPro and LabVIEW
OS	32bit / 64bit Windows, Linux, Mac OS
Conformity	CE, RoHS, GenICam®, GigE Vision®

I/O Interface



Pin	Definition	Description
1	Line0+	Opto-isolated input +
2	GND	PWR GND & GPIO GND
3	Line0-	Opto-isolated input -
4	POWER_IN	Camera external power, +12V DC~+24V DC
5	Line2	GPIO input/output
6	Line3	GPIO input/output
7	Line1-	Opto-isolated output -
8	Line1+	Opto-isolated output +
9	NC1	Not Connected, reserved
10	GND	PWR GND & GPIO GND
11	NC2	Not Connected, reserved
12	NC3	Not Connected, reserved

Technical Drawing



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