

MER2-503-23GM-P POL

5MP CMOS GigE Area Scan Camera



GEN<i>i>CAM



The MER2-503-23GM-P POL camera is a GigE Vision Polarization camera with the Sony IMX264MZR CMOS sensor. 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. The MER2-503-23GM-P POL camera has opto-isolated I/Os. The GPIOs give MER2-G(-P) cameras maximum flexibility to adapt to specific needs.

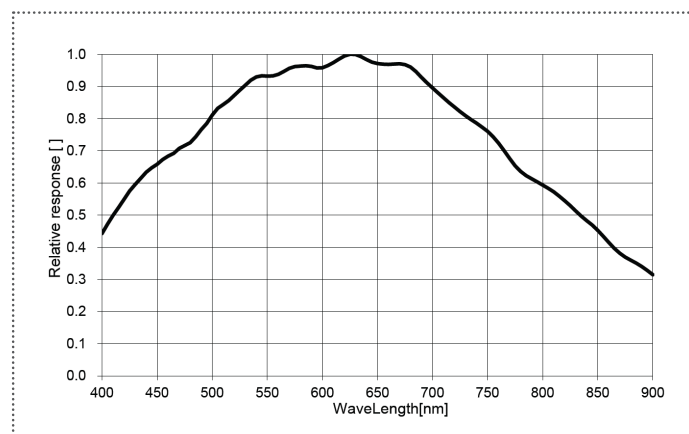
Applications

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

Features

- Auto Gain, Auto Exposure, ROI
- Binning, Decimation
- Timer, Counter, LUTs and User Set Control
- Gamma, Black Level, Digital Shift, Sharpness, Noise Reduction
- Remove Parameter Limits
- 16KB User Data Area

Spectral Response



Specifications

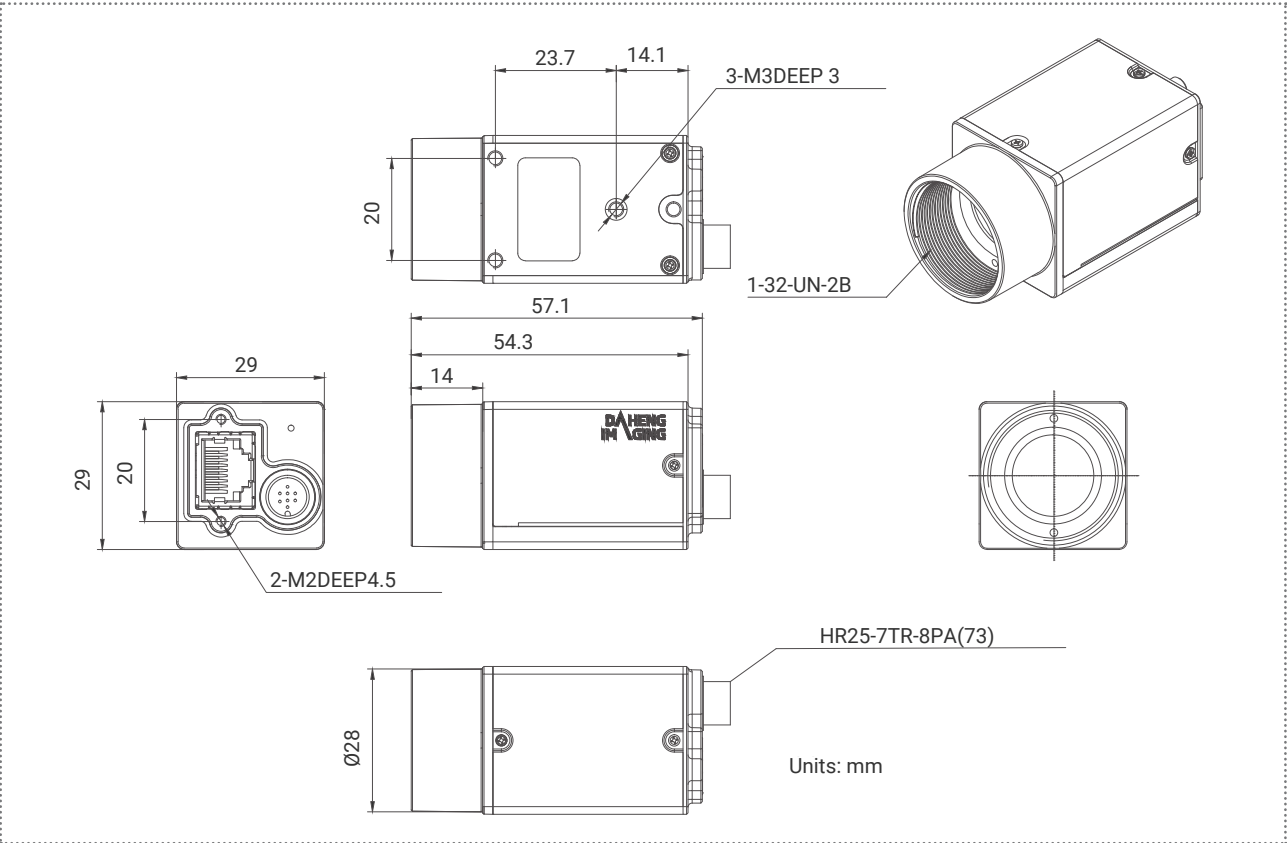
Model	MER2-503-23GM-P POL
Resolution	2448(H) × 2048(V)
Sensor	Sony IMX264MZR Global shutter CMOS
Sensor Format	2/3"
Pixel Size	3.45μm × 3.45μm
Frame Rate	23.5 fps
ADC	12 bit
Pixel Bit Depth	8 bit, 12 bit
Mono/Color	Mono polarization
Pixel Formats	Mono8 / Mono12
SNR	40.57 dB
Exposure Time	UltraShort: 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, 2 programmable GPIOs
Data Interface	GigE PoE
Power Supply	12VDC-10% ~ 24VDC+10% supplied via the camera's Hirose connector or PoE (Power over Ethernet, IEEE802.3af compliant)
Typical Power	2.49W @ 12VDC, 2.72W @ PoE
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) × 40.3(L) mm (without lens adapter or connectors)
Weight	75 g
Software	3rd-party software such as HALCON, VisionPro and LabVIEW
OS	32bit / 64bit Windows, Linux, Mac OS
Conformity	CE, RoHS, FCC, ICES, UKCA, UL, GigE Vision®, GenICam®

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 +

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