

MER3-2560-11G3M-P

MERCURY3 Series 25MP CMOS 2.5GigE Area Scan Camera



The MER3-2560-11G3M-P camera is a monochrome GigE Vision camera with the CMOS sensor and high performance FPGA. The MER3-2560-11G3M-P camera is capable of 2.5Gbit/s maximum transfer data rate, and has opto-isolated I/Os that adapt to specific needs. Four-side mounting holes provide maximum installation flexibility for camera. Thanks to the extremely compact (29mm × 29mm), robust metal housings and locking screw connectors, the MERCURY3 cameras can secure the reliability of cameras deployed in harsh environments.

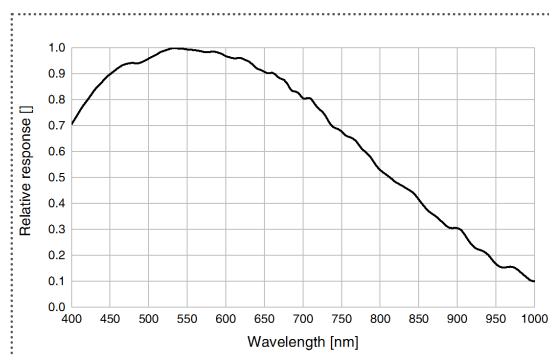
Applications

Suitable for machine vision applications such as Industrial inspection, rail transport, scientific research, 3D reconstruction and so on.

Features

- Two trigger types: FrameStart / FrameBurstStart
- Gamma, Digital Shift, Black Level and Burst Acquisition
- Timer, Counter, LUTs and User Set Control
- Support Remove Parameter Limit to expand the range of exposure, gain and so on
- 512KB data storage area for saving algorithm coefficients and parameter configuration

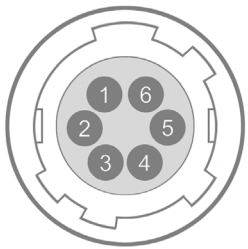
Spectral Response



Specifications

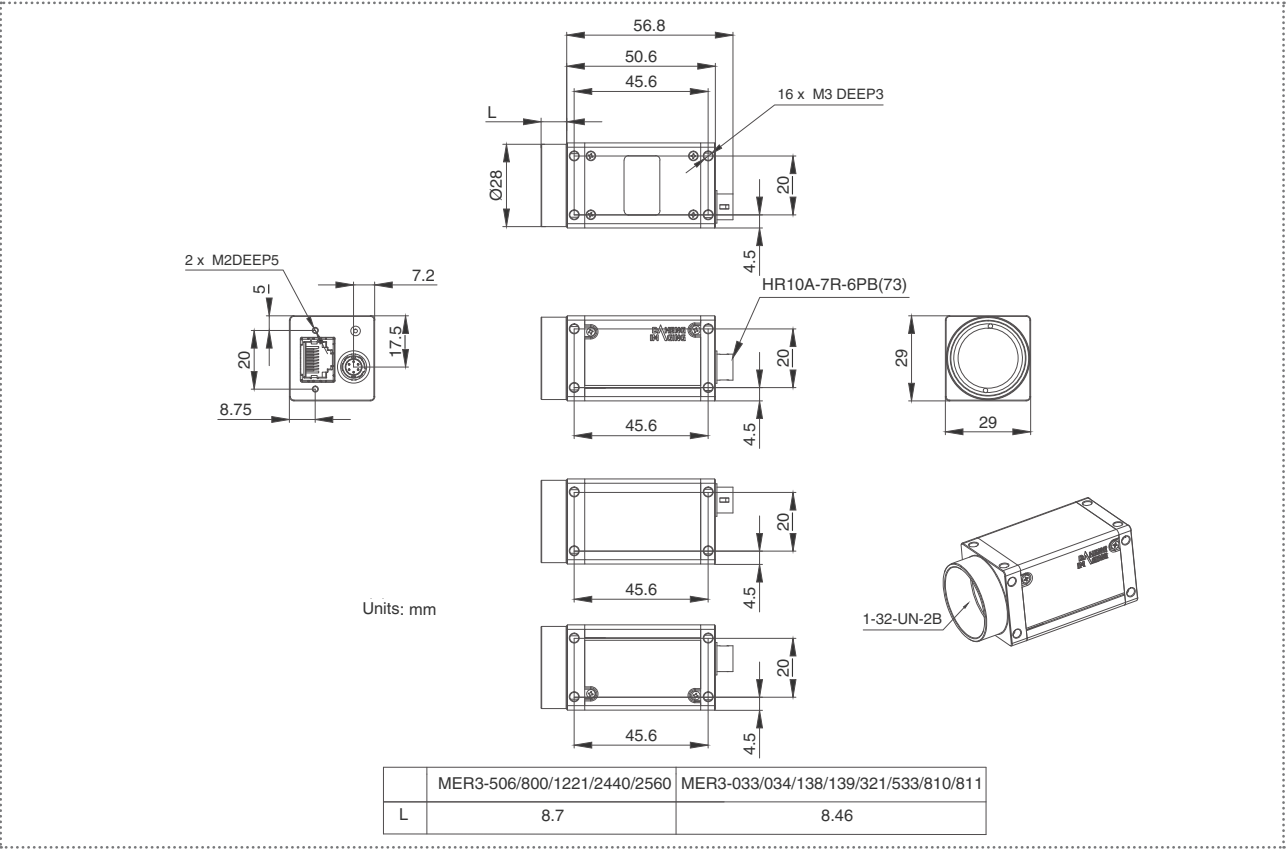
Model	MER3-2560-11G3M-P
Resolution	5064(H) × 5064(V)
Sensor	Global shutter CMOS
Sensor Format	1.1"
Pixel Size	2.5μm × 2.5μm
Frame Rate	11fps (Under acquisition burst high speed mode, acquisition frame rate up to 18.34fps)
ADC	12 bit
Pixel Bit Depth	8 bit, 12 bit
Mono/Color	Mono
Pixel Formats	Mono8 / Mono12
SNR	40.97 dB
Exposure Time	UltraShort: 1μs~2.4μs, Actual Steps: 0.1μs Standard: 3μs~20μs, Actual Steps: 1μs; 21μs~1s, Actual Steps: 1 row period
Gain	0dB ~ 16dB, Default: 0dB, Steps: 0.1dB
Binning	-
Decimation	-
Synchronization	Hardware trigger, software trigger
Acquisition Mode	Single frame, Continuous, Software trigger, Hardware trigger
Reverse X/Y	Reverse X/Y
I/O Interface	1 input with opto-isolated, 2 programmable GPIOs
Data Interface	2.5GigE
Power Supply	PoE (Power over Ethernet, IEEE802.3af compliant) or 12VDC-10% ~ 24VDC+10%
Typical Power	5.4W @ 12V / PoE
Operating Temp.	0°C ~ +50°C
Storage Temp.	-20°C ~ +70°C
Operating Humidity	10% ~ 80%
Lens Mount	C
Dimensions	29(W) × 29(H) × 50.6(L) mm (without lens adapter or connectors)
Weight	69 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	Description
1	POWER_IN	Camera external power, +12V DC~+24V DC
2	Line0+	Opto-isolated input +
3	Line2	GPIO0 input/output
4	Line3	GPIO1 input/output
5	Line0-	Opto-isolated input -
6	GND	PWR GND & GPIO GND

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