

MER3-2440-12G3M/C-P

MERCURY3 Series 24MP CMOS 2.5GigE Area Scan Camera



The MER3-2440-12G3M/C-P camera is a monochrome/color GigE Vision camera with the Sony CMOS sensor and high performance FPGA. The MER3-2440-12G3M/C-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.

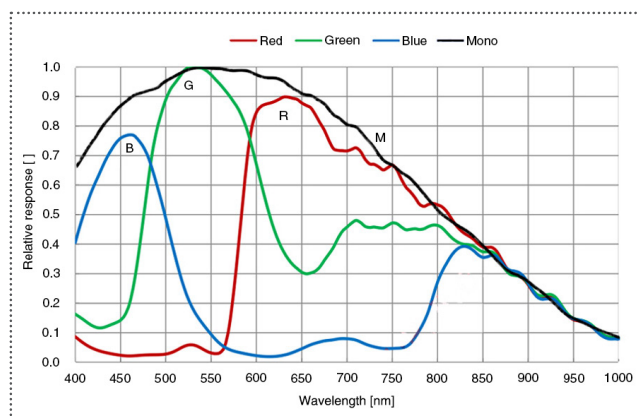
Applications

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

Features

- Two trigger types: FrameStart / FrameBurstStart
- Decimation, Gamma, Digital Shift, Black Level and Burst Acquisition
- Timer, Counter, LUTs and User Set Control
- Color models support Light source preset, Color Transformation Control and Saturation
- Mono camera support NoiseReduction and Sharpness
- Support Remove Parameter Limit to expand the range of exposure, gain and so on
- 512K data storage area for saving algorithm coefficients and parameter configuration

Spectral Response



Specifications

Model	MER3-2440-12G3C-P	MER3-2440-12G3M-P
Resolution	5328(H) × 4608(V)	
Sensor	Sony IMX540 Global shutter CMOS	
Sensor Format	1.2"	
Pixel Size	2.74μm × 2.74μm	
Frame Rate	12fps (Under acquisition burst high speed mode, acquisition frame rate up to 19.16fps)	
ADC	12 bit	
Pixel Bit Depth	8 bit, 12 bit	
Mono/Color	Color	Mono
Pixel Formats	Bayer RG8 / Bayer RG12 / RGB8 / BGR8 / Mono8	Mono8 / Mono12
SNR	40.11 dB	40.19 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	-	Sensor: 1×1, 2×2
Decimation	Sensor: 1×1, 2×2	
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®	

