

MERCURY2 SERIES MER2-231-41GM/C-P



- 2.3 Megapixels
- 1/1.2" global shutter CMOS sensor
- Ultra small, light and robust
- Compatible with GenICam[™] and GigE Vision[®]
- Gigabit Ethernet interface
- Power over Ethernet (PoE)
- 2 programmable GPIOs

The MERCURY2 GigE PoE series (MER2-G-P) camera is DAHENG IMAGING's new generation industrial digital camera.With improved built-in ISP algorithms, MER2-G-P series camera supports Decimation, Binning, Gamma, Digital Shift and more features. Providing multiple acquisition controls, the camera can adapt to various vision applications.

The MER2-231-41GM/C-P camera is a monochrome/color GigE Vision camera with the Sony IMX249 CMOS sensor. Thanks to the compact design(29mm×29mm×40.3mm), robust metal housings and locking screw connectors, the MERCURY2 cameras can secure the reliability of cameras deployed in harsh environments. The MER2-231-41GM/C-P camera has opto-isolated I/Os. The GPIOs give MER2-G-P cameras maximum flexibility to adapt to specific needs.

The MERCURY2 family cameras are especially suitable for machine vision applications such as industrial inspection, medical, scientific research, education, security and so on.

Features

- Power over Ethernet (IEEE802.3af compliant)
- 10-bit or 8-bit Mono/Bayer output
- Programmable ROI, increased frame rate with partial scan
- Gain, exposure and white balance programmable (white balance only for color models)
- Support auto gain, auto exposure and auto white balance (auto white balance only for color models)
- Four acquisition controls: Single frame acquisition / Continuous acquisition / Software trigger acquisition / External trigger acquisition
- Trigger mode: Frame Start /Frame Burst Start
- Adjustable packet-size and packet-delay, and reserved bandwidth
- Programmable LUTs and storable user sets
- Support Decimation, Binning and Digital Shift
- Support Reverse X/Y(horizontal and vertical mirroring)
- Adjustable Gamma and Sharpness for optimizing the brightness and sharpness of the images
- Exposure delay effectively reduces the effect of the strobe delay
- Support Remove Parameter Limit to expand the range of exposure, gain, white balance, and so on
- Compatible with GenICam[™] and GigE Vision[®], can be used in a wide range of 3rd-party software such as HALCON, MERLIC and LabVIEW directly
- Optimized software package for 32/64bit Windows, and support Linux, ARMv7 and ARMv8
- Multiple samples and easy-to-integrate SDKs for various programming tools
- Regulations: CE, RoHS, GenICam, GigE Vision, IEEE802.3af (PoE)



Performance Specifications

Model	MER2-231-41GM/C-P
Interface	GigE
Resolution	1920(H) × 1200(V)
Frame rate	41 fps @1920 × 1200
Sensor	1/1.2" Sony IMX249
	Global shutter CMOS
Pixel size	5.86 μm × 5.86 μm
Pixel Bit Depth	8bit, 10bit
Spectrum	Monochrome / Color
Exposure time	20µs~1s

Electrical Specifications

Power requirement	12~24 VDC via 8-Pin or PoE	
I/Os	1 input / 1 output, 2 GPIOs	
Data interface	RJ45	
Power consumption <3W @24VDC		

Environmental Specifications

Operating temp.	0°C ~ +45°C
Storage temp.	-20°C ~ +70°C
Operating humidity	10% ~ 80%

Mechanical Specifications

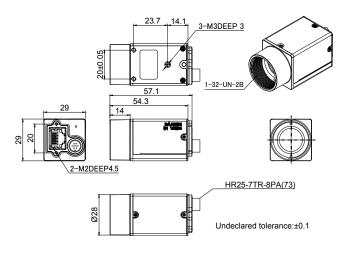
Weight	75g
Dimensions	29(W)x29(H)x40.3(L)mm, w/o connectors

Optical Specifications

Lens mount

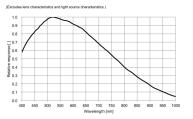
C-Mount (standard), CS-Mount (optional)

Technical Drawing

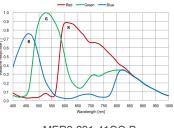


Units: mm

Spectral Response



MER2-231-41GM-P



MER2-231-41GC-P

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