

MERCURY2 FAMILY

MER2-507-23GM/C-P



- 5.0 Megapixels
- 1/2.5" rolling 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 more features. Providing multiple acquisition controls, the camera can adapt to various vision applications.

The MER2-507-23GM/C-P camera is a monochrome/color GigE Vision camera with the Onsemi AR0521 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 MER2-507-23GM/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)
- 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)
- Support Black Level and Reverse X/Y(horizontal and vertical mirroring)
- Support Binning, Decimation, Digital Shift and Dynamic Defect Pixel Correction
- · Adjustable Gamma and Sharpness for optimizing the brightness and sharpness of images
- Color models support Light source preset, Color Transformation Control and Saturation
- Monochrome models support Noise Reduction
- Programmable LUTs and storable user sets
- Support Timer and Counter
- Adjustable packet-size and packet-delay, and reserved bandwidth
- Support Remove Parameter Limit to expand the range of exposure, gain, and so on
- 16KB data storage area for saving algorithm coefficients and parameter configuration
- 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、ARMv8 and Mac OS
- Multiple samples and easy-to-integrate SDKs for various programming tools
- Regulations: CE, FCC, RoHS, GenlCam, GigE Vision



Performance Specifications

Model	MER2-507-23GM/C-P
Interface	GigE
Resolution	2592(H) × 1944(V)
Frame rate	23.3 fps @2592 × 1944
Sensor	1/2.5", Onsemi AR0521 Rolling shutter CMOS
Pixel size	$2.2~\mu m \times 2.2~\mu m$
Pixel Bit Depth	8bit, 12bit
Spectrum	Monochrome / Color
Exposure time	20μs~1s

Optical Specifications

Lens mount	C-Mount (standard), CS-Mount (optional)
Lens mount	G-IVIOUTIL (Statidard), GG-IVIOUTIL (Optional)

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: ~3 75W@POF

Power consumption <3W@24VDC; <3.75W@POE

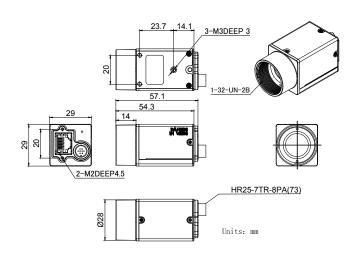
Environmental Specifications

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

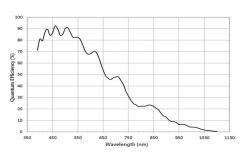
Mechanical Specifications

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

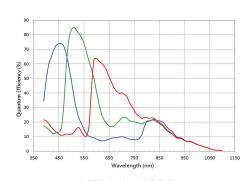
Technical Drawing



Spectral Response



MER2-507-23GM-P



MER2-507-23GC-P

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