MERCURY2 SERIES

MER2-202-60GM/C

- 2.0 Megapixels

- 1/1.8" global shutter CMOS sensor

- Ultra small, light and robust

- Compatible with GenICam™ and GigE Vision®

- Gigabit Ethernet interface

- 2 programmable GPIOs

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

The MER2-202-60GM/C camera is a monochrome/color GigE Vision camera with the Teledyne e2v EV76C570 CMOS sensor. Thanks to the extremely compact design (29mm × 29mm × 29mm), robust metal housings and locking screw connectors, the MERCURY2 cameras can secure the reliability of cameras deployed in harsh environments. The MER2-202-60GM/C camera has opto-isolated I/Os. The GPIOs give MER2-G 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

- GigE interface with 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)

- Three acquisition controls: Continuous acquisition/Software trigger acquisition/External trigger acquisition

- Support Defect Pixel Correction

- Programmable LUTs and storable user sets

- Flash sync for firing external lights at precisely the moment when exposure is performed

- Adjustable packet-size and packet-delay, and reserved bandwidth

- Robust full metal housing and optional lockable devices

- 16KB data storage area for saving algorithm coefficients and parameter configuration

- Long cable lengths: up to 100 m (without any hubs, repeaters etc.)

- 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, RoHS, GenICam, GigE Vision

Performance Specifications

Model	MER2-202-60GM/C
Interface	GigE
Resolution	1600(H) × 1200(V)
Frame rate	60 fps @1600 × 1200
Sensor	1/1.8" Teledyne e2v EV76C570 Global shutter CMOS
Pixel size	4.5 μm × 4.5 μm
Pixel Bit Depth	8bit, 10bit
Spectrum	Monochrome / Color
Exposure time	14μs~860ms

Optical Specifications

Lens mount	C-Mount (standard), CS-Mount (optional)
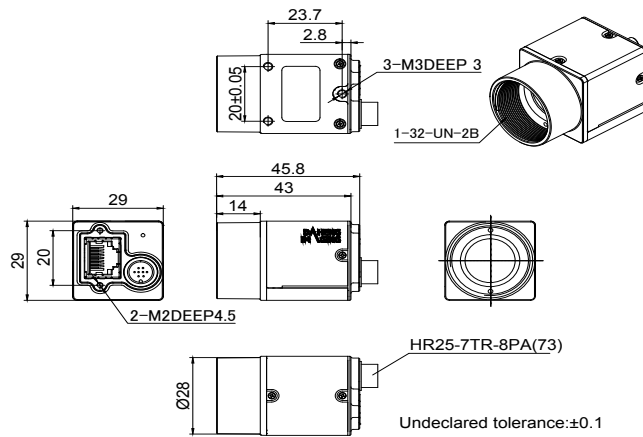
Electrical Specifications

Power requirement	12~24 VDC via 8-Pin connector
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	62g
Dimensions	29(W)x29(H)x29(L)mm, w/o connectors

Technical Drawing

3—M3DEEP 3

1—32—UN—2B

2—M2DEEP4.5

HR25-7TR-8PA(73)

Undeclared tolerance:±0.1

Units: mm

Spectral Response
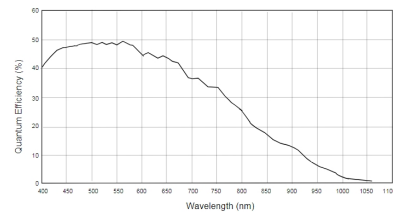
MER2-202-60GM
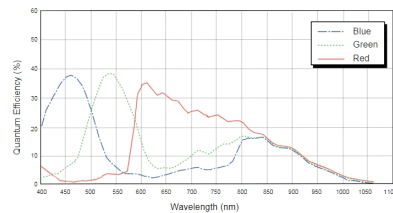
MER2-202-60GC

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