

MERCURY2 SERIES

MER2-503-23GM-P POL



- Minimal exposure time mode
- 5.0 Megapixels
- 2/3" global shutter CMOS sensor
- Ultra small, light and robust
- Compatible with GenICam[™] and GigE Vision[®]
- Polarization camera
- Power over Ethernet (PoE)
- 2 programmable GPIOs

The MERCURY2 GigE PoE series (MER2-G-P) camera is DAHENG IMAGING's new generation area scan industrial digital camera, featuring outstanding performance, compact design and extremely low noise.

The MER2-503-23GM-P POL camera is a polarization camera with the Sony IMX264MZR CMOS sensor, and capture image of four different light directions simultaneously. Polarization camera can inspect reflective surface such as glass, metal which are difficult for monochrome or color camera. Thanks to the extremely compact, robust metal housings and locking screw connectors, the MERCURY cameras can secure the reliability of cameras deployed in harsh environments. The MER2-503-23GM-P POL camera is powered over the GigE interface and has opto-isolated I/Os. The GPIOs give MER2-G maximum flexibility to adapt to specific needs. The camera has an outstanding price/performance ratio.

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)
- Gain and exposure
- Support auto gain and auto exposure
- Four acquisition controls: Single frame acquisition / Continuous acquisition / Software trigger acquisition / External trigger acquisition
- Trigger mode: Frame Start /Frame Burst Start
- Two exposure time modes: standard exposure time mode / minimal exposure time mode
- Support Decimation, Binning, Digital Shift and Black Level
- Support Reverse X/Y(horizontal and vertical mirroring)
- Adjustable Gamma and Sharpness for optimizing the brightness and sharpness of images
- Programmable LUTs and storable user sets
- Support Timer and Counter
- Support Remove Parameter Limit to expand the range of exposure, gain, and so on
- Adjustable packet-size and packet-delay, and reserved bandwidth
- 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, RoHS, GenlCam, GigE Vision, IEEE802.3af (PoE)



Performance Specifications

| Model | MER2-503-23GM-P POL |
|-----------------------|--|
| Interface | GigE |
| Resolution | 2448(H) × 2048(V) |
| Frame rate | 23.5 fps @2448 × 2048 |
| Sensor | 2/3" Sony IMX264MZR Global shutter CMOS |
| Pixel size | 3.45 μm × 3.45 μm |
| Pixel Bit Depth | 8bit, 10bit |
| Spectrum | Monochrome |
| Exposure time | 20μs~1s |
| Minimal exposure time | 1μs~100μs |

Optical Specifications

| Lens mount | C-Mount (standard), CS-Mount (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 | |

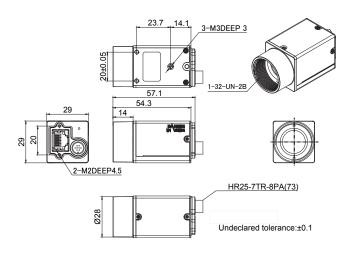
Environmental Specifications

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

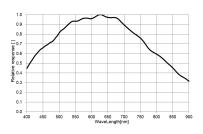
Mechanical Specifications

| Weight | 75g |
|------------|--|
| Dimensions | 29x29x40.3mm, w/o adapter & connectors |

Technical Drawing



Spectral Response



MER2-503-23GM-P POL

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