

# MERCURY2 PRO SERIES

## ME2P-1230-9GM/C-P



- High definition, high quality image
- 1.1" global shutter CMOS sensor
- 12.3 Megapixels
- Compatible with GenICam™ and GigE Vision®
- Multiple functions
- Power over Ethernet (PoE)
- 2 programmable GPIOs

The MERCURY2 PRO PoE series (ME2P-G-P) camera is DAHENG IMAGING's high definition industrial digital camera, featuring outstanding performance, compact design and flexible installation.

ME2P-1230-9GM/C-P is a monochrome/color GigE Vision camera with the Sony IMX304 CMOS sensor. The ME2P-1230-9GM/C-P camera has opto-isolated I/Os that adapt to specific needs. Four-side mounting holes provide maximum installation flexibility for ME2P-G-P. Thanks to the extremely compact design (36mm × 31mm × 50.6mm), locking screw connectors, the MERCURY2 PRO PoE series cameras can secure the reliability of cameras deployed in harsh environments.

Featuring compact design, outstanding performance, ease of installation and use, the MERCURY2 PRO 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
- Two exposure time modes: standard exposure time mode / minimal exposure time mode
- 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
- Support Timer, Counter, LUTs and storable user sets
- Support Gamma, Sharpness, Black Level, Static Defect Pixel Correction and Flat Field Correction
- Support Decimation, Binning, Digital Shift and Reverse X/Y (horizontal and vertical mirroring)
- Mono models support Noise Reduction
- Color models support light source preset function, Color Transformation Control and Saturation function.
- Support Remove Parameter Limit to expand the range of exposure, gain, white balance, 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, GenICam, GigE Vision, IEEE802.3af (PoE)

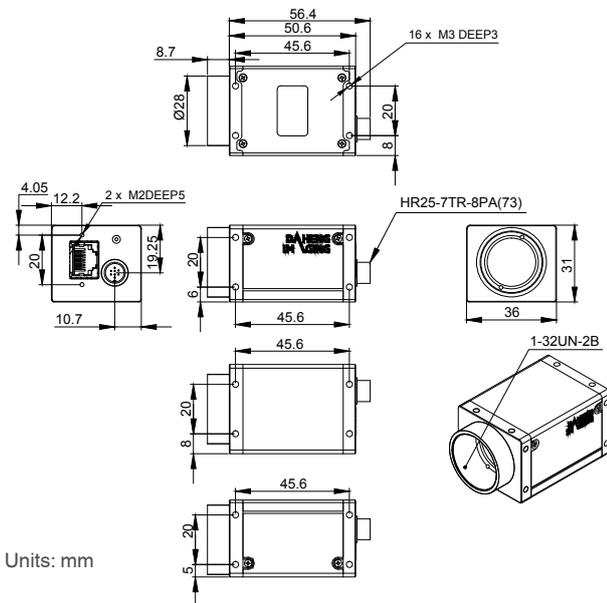
## Performance Specifications

Model	ME2P-1230-9GM/C-P
Interface	GigE
Resolution	4096(H) × 3000(V)
Frame rate	9 fps
Sensor	1.1", global shutter Sony IMX304 CMOS
Pixel size	3.45 μm × 3.45 μm
Pixel Bit Depth	Monochrome / Color
Spectrum	8bit, 12bit
Exposure time	36μs ~ 1s
Minimal exposure time	1us~100us

## Mechanical Specifications

Weight	75g
Dimensions	36(W)x31(H)x50.6(L) mm, w/o connectors

## Technical Drawing



## Electrical Specifications

Power requirement	12~24 VDC via 8-Pin or PoE
I/Os	1 input / 1 output, 2 GPIOs
Data interface	RJ45 with locked
Power consumption	<3.75W @24VDC; <3.75W @PoE

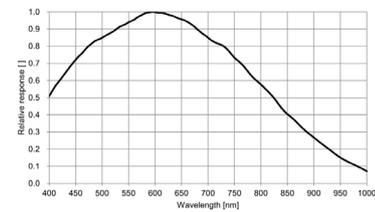
## Environmental Specifications

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

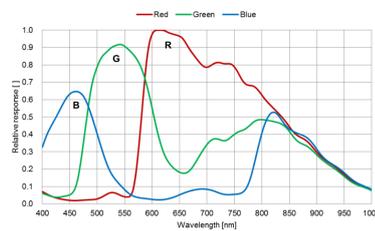
## Optical Specifications

Lens mount	C-Mount (standard), CS-Mount (optional)
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## Spectral Response



ME2P-1230-9GM-P



ME2P-1230-9GC-P

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Specifications are subject to change without prior notice.

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