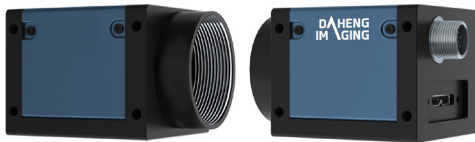# MERCURY2 PRO SERIES

ME2P-2621-15U3M/C

- Ultra small, light and robust
- 1.1" global shutter CMOS sensor
- Compatible with GenICam™ and USB3 Vision®
- USB3.0 interface
- 26.2 Megapixels
- High definition and low cost

The MERCURY2 PRO USB3.0 series (ME2P-U3) camera is DAHENG IMAGING's high definition industrial digital camera. ME2P-2621-15U3M/C supports Gamma, Reverse, Black Level, Defect Pixel Correction and more features to adapt to various vision applications, especially supporting Sharpness and Noise Reduction to improve the image quality. ME2P-2621-15U3M/C is a monochrome/color USB3 Vision camera with the GMAX0505 CMOS sensor. The ME2P-2621-15U3M/C camera has opto-isolated I/Os that adapt to specific needs. Four-side mounting holes provide maximum installation flexibility for ME2P-U3. Thanks to the extremely compact design (36mm × 31mm × 38.8mm), locking screw connectors, the MERCURY2 PRO 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

- 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 LUTs and storable user sets
- Support Reverse, Black Level and Defect Pixel Correction
- Support Color Enhancement for improving image quality (only for color models)
- Adjustable Gamma for optimizing the brightness (only for color models)
- Add Sharpness and Noise Reduction to optimize the edge definition and improve the quality of images (only for mono models)
- Support Remove Parameter Limit to expand the range of exposure, gain, white balance, and so on
- 16KB data storage area for saving algorithm coefficients, parameter configuration, and so on
- Provide mounting holes on four surfaces for flexible installation
- Compatible with GenICam™ and USB3 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, Android, ARMv7 and ARMv8
- Multiple samples and easy-to-integrate SDKs for various programming tools
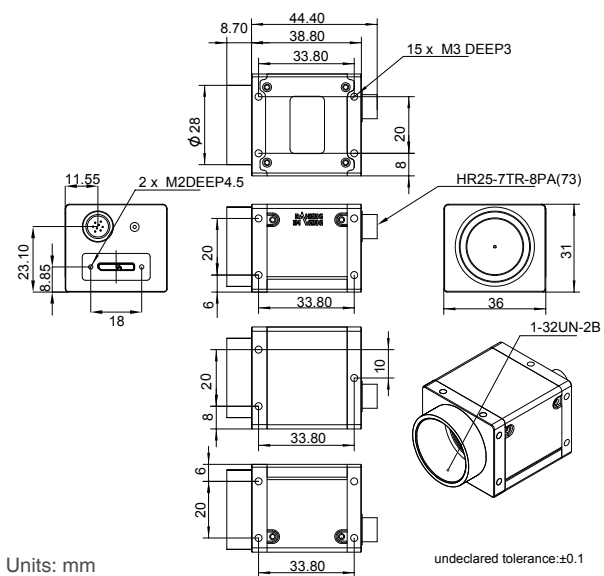- Regulations: CE, RoHS, GenICam, USB3 Vision

Performance Specifications

Model	ME2P-2621-15U3M/C
Interface	USB3.0
Resolution	5120(H) × 5120(V)
Frame rate	15.1 fps
Sensor	1.1", global shutter GMAX0505 CMOS
Pixel size	2.5 μm × 2.5 μm
Spectrum	Monochrome / Color
Exposure time	10μs ~ 1s

Mechanical Specifications

Weight	66g
Dimensions	36x31x38.8 mm, w/o adapter & connectors

Technical Drawing

Units: mm

undeclared tolerance:±0.1

Electrical Specifications

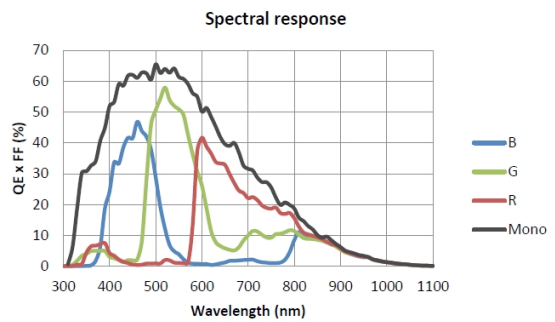|	
Power requirement	5 VDC via USB cable
I/Os	1 input / 1 output, 2 GPIOs
Data interface	Micro B
Power consumption	<2.5W @5V DC

Environmental Specifications

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

Optical Specifications

Lens mount	C-Mount

Spectral Response

ME2P-2621-15U3M/C

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