

MER-031-860U3M/C-L



- Ultra small, light and robust
- 1/4" Global Shutter CMOS sensor
- Compatible with GenICam[™] and USB3 Vision[®]
- USB3.0 Interface
- 0.3 Megapixels
- 860 fps@0.3 MegaPixels
- Very attractive price

The MERCURY USB3.0 series (MER-U3-L) camera is DAHENG IMAGING's mature area scan industrial digital camera, featuring outstanding performance, compact design and extremely low noise.

The MER-031-860U3M/C-L camera is a monochrome/color USB3 Vision camera with the Onsemi PYTHON 300 CMOS sensor. Thanks to the extremely compact (29mm ×29mm × 29mm), robust metal housings and locking screw connectors, the MERCURY cameras can secure the reliability of cameras deployed in harsh environments.

The MER-031-860U3M/C-L camera is powered over the USB interface. Compared to the MER-031-860U3M/C, the MER-031-860U3M/C-L has no I/O interfaces, so it is more light and handy. The camera has an outstanding price/ performance ratio.

The MERCURY family cameras are especially suitable for machine vision applications such as industrial inspection, medical, scientific research, education, security and so on.

Features

- USB3.0 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)
- Two acquisition controls: Continuous acquisition/ Software trigger acquisition
- Flash sync for firing external lights at precisely the moment when exposure is performed
- Adjustable URB
- Software reset function
- Storable user sets
- Support Decimation and Reverse X/Y (horizontal and vertical mirroring only for mono models)
- Robust full metal housing and optional lockable devices
- Hot plugging available
- Compatible with GenICam[™] and USB3 Vision[®], support a variety of 3rd-party software such as HALCON, MERLIC and LabVIEW
- 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, FCC, GenICam, USB3 Vision



Performance Specifications

Model	MER-031-860U3M/C-L
Interface	USB3.0
Resolution	640(H) × 480(V)
Frame rate	860 fps
Sensor	1/4" Global Shutter Onsemi PYTHON 300 CMOS
Pixel size	$4.8\ \mu\text{m} imes 4.8\ \mu\text{m}$
Pixel Bit Depth	8bit, 10bit
Spectrum	Monochrome / Color
Exposure time	20µs ~ 1s

C-Mount (standard), CS-Mount (optional)

Electrical Specifications

Power requirement	5 VDC via USB cable	
I/Os		
Data interface	Micro B	
Power consumption <2.7W @5V DC		

Environmental Specifications

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

Mechanical Specifications

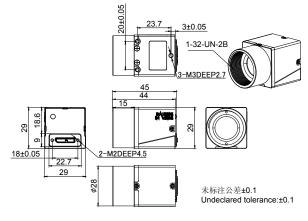
Weight	53g
Dimensions	29(W)×29(H)×29(L)mm, w/o connectors

Technical Drawing

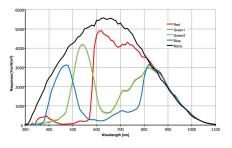
Lens mount

Optical Specifications

Spectral Response



Units: mm



MER-031-860U3M/C-L

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