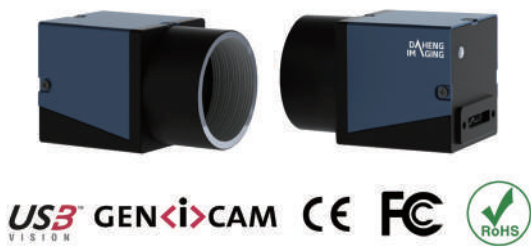# MERCURY SERIES

MER-133-54U3M/C-L

- Ultra small, light and robust
- 1/3" Global Shutter CMOS sensor
- Compatible with GenICam™ and USB3 Vision®
- USB3.0 Interface
- 1.3 Megapixels
- 54 fps@1.3 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-133-54U3M/C-L camera is a monochrome/color USB3 Vision camera with the Onsemi AR0135 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-133-54U3M/C-L camera is powered over the USB interface. Compared to the MER-133-54U3M/C, the MER-133-54U3M/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 defect pixel correction
- 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
- 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-133-54U3M/C-L
Interface	USB3.0
Resolution	1280(H) × 960(V)
Frame rate	54 fps
Sensor	1/3" ,Global Shutter Onsemi AR0135 CMOS
Pixel size	3.75 µm × 3.75 µm
Spectrum	Monochrome / Color
Exposure time	20µs ~ 1s

Optical Specifications

Lens mount	C-Mount

Technical Drawing

未标注公差±0.1
Undeclared tolerance:±0.1

Units: mm

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

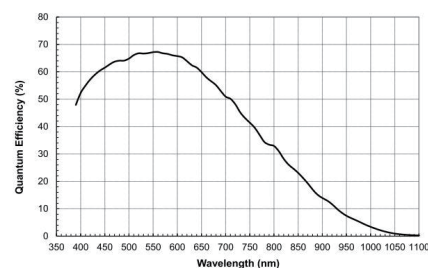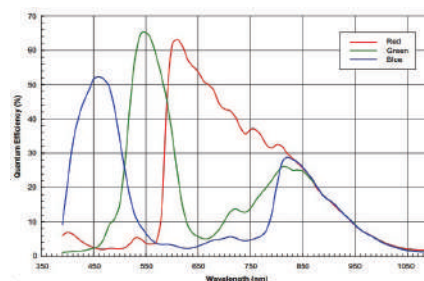|	
Weight	53g
Dimensions	29×29×29mm, w/o adapter & connectors
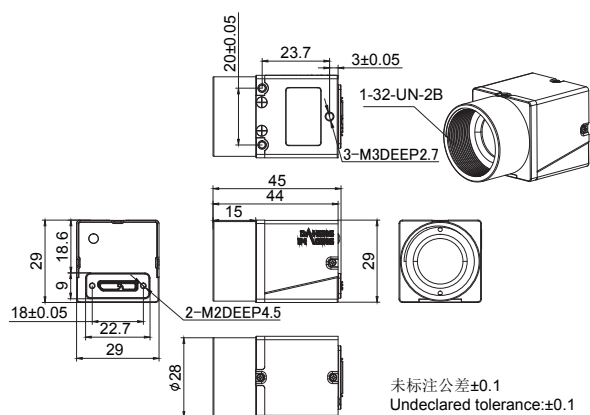
Spectral Response

MER-133-54U3M-L

MER-133-54U3C-L

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