MERCURY SERIES

MER-131-210U3M/C

- Ultra small, light and robust
- 1/2" Global Shutter CMOS sensor
- Compatible with GenICam™ and USB3 Vision®
- USB3.0 Interface
- 1.3 Megapixels
- 2 Programmable GPIOs
- Very attractive price

USB3 VISION **GEN<i>CAM** CE FC RoHS

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

The MER-131-210U3M/C camera is a monochrome/color USB3 Vision camera with the Onsemi PYTHON 1300 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-131-210U3M/C camera is powered over the USB interface. The MER-131-210U3M/C camera has opto-isolated I/Os. The GPIOs give MER-U3 maximum flexibility to adapt to specific needs. 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)
- Three acquisition controls: Continuous acquisition/ Software trigger acquisition/ External 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-131-210U3M/C
Interface	USB3.0
Resolution	1280(H) × 1024(V)
Frame rate	210 fps
Sensor	1/2",Global Shutter Onsemi PYTHON 1300 CMOS
Pixel size	4.8 μm × 4.8 μm
Pixel Bit Depth	8bit, 10bit
Spectrum	Monochrome / Color
Exposure time	20μs ~ 1s

Optical Specifications

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

Electrical Specifications

Power requirement	5 VDC via USB cable
I/Os	1 input / 1 output, 2 GPIOs
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	57g
Dimensions	29(W)×29(H)×29(L)mm, w/o connectors

Technical Drawing

未标注公差±0.1
Undeclared tolerance:±0.1

Units: mm
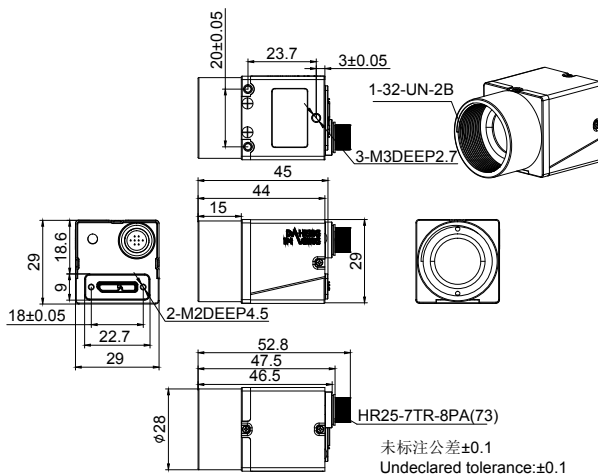
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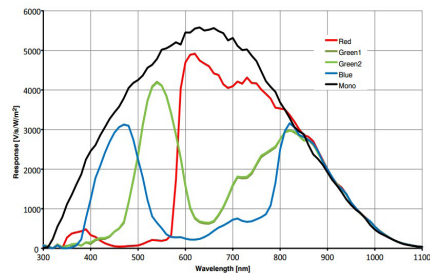
MER-131-210U3M/C

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October 14, 2021