

MERCURY

- *Ultra small, light and robust*
- *Very attractive price*
- *210fps @ 1.3 Megapixels resolution*
- *Compatible with USB3 VISION® and GEN<i>CAM™*
- *USB3.0 Interface*
- *Opto-isolated 8-pin I/Os, 2 programmable GPIOs*

MER-131-210U3M/C



The MERCURY family is DAHENG's smallest industrial digital camera. Thanks to the extremely compact (29mm x 29mm x 29mm), robust metal housings and locking screw connectors, MERCURY cameras can secure the reliability of cameras deployed in harsh environments. These cameras have an outstanding price/performance ratio.

The MERCURY family cameras are especially suitable for machine vision applications such as surface inspection, alignment, defect detection, measurement, OCR, bar code and data code identification and so on. They are also suitable for desktop applications, such as medical and documents imaging.

- Mini USB 3.0 interface with 10 or 8-bit Bayer/Mono output
- Programmable AOI, increased frame rate with partial scan
- Gain, exposure and white-balance control
- Flash sync for firing external lights at precisely the moment when exposure is performed
- Adjustable URB
- Software reset function
- Support color correction and defect pixel correction
- Storable user sets
- Robust full metal housing and optional lockable devices
- Hot plugging available
- Compatible with GenICam™ and USB3 Vision®, can be used in a wide range of 3rd-party software such as HALCON and LABVIEW directly
- Optimized software package for lower CPU loads in host running 32/64bit Windows
- Free SDK and examples for various programming tools

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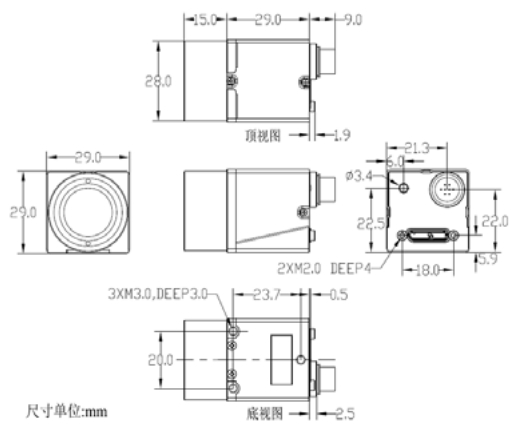
Performance Specifications

Model	MER-131-210U3M/C
Interface	USB3.0
Resolution	1280 (H) x 1024 (V)
Frame rate	210 fps
Sensor	1/2" Global shutter CMOS
Cell size	4.8 μm x 4.8 μm
Spectrum	Monochrome / Color

Mechanical Specifications

Weight	57g
Dimensions	29x29x29mm, w/o adapter or connectors
Material	Metal enclosed (Housing)

Dimensions



Electrical Specifications

Power requirement	5 VDC via USB cable
I/Os	1 input / 1 output, 2 GPIOs
Data interface	USB3.0
Power consumption	<2.5W @5V

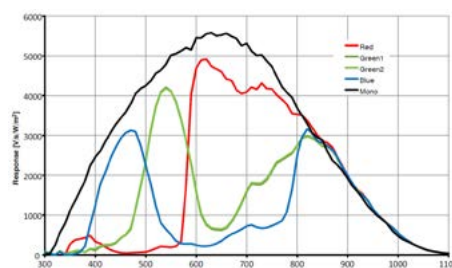
Environmental Specifications

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

Optical Specifications

Lens mount	C-Mount
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Spectral Response



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