

# MERCURY SERIES

## MER-310-12UC-L



GEN*i*CAM



- Ultra small, light and robust
- 1/2" Rolling CMOS sensor
- Compatible with GenICam™
- USB2.0 Interface
- 3.1 Megapixels
- Very attractive price

The MERCURY USB2.0 series(MER-U-L) camera is DAHENG IMAGING's mature area scan industrial digital camera, featuring mega pixels resolution, high definition, extremely low noise and compact design.

The MER-310-12UC-L camera is a color USB camera with the Onsemi MT9T001 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-310-12UC-L camera is powered over the USB interface. Compared to the MER-310-12UC, the MER-310-12UC-L has no I/O interfaces, so it is more light and handy. The camera has an outstanding price/performance ratio.

The MERCURY USB2.0 Series camera is 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 microscope and documents imaging.

### Features

- Programmable ROI (region of interest), increased frame rate with partial scan
- Gain, exposure and white balance programmable
- Support auto gain, auto exposure and auto white balance
- Two acquisition controls: Continuous acquisition/Software trigger acquisition
- Programmable acquisition speed level, optimize multi-cameras work simultaneity
- Built-in encryption circuitry
- Robust full metal housing and optional lockable devices
- Hot plugging available
- Compatible with GenICam™ and GigE 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
- Multiple samples and easy-to-integrate SDK for various programming tools
- Regulations: CE, RoHS, GenICam

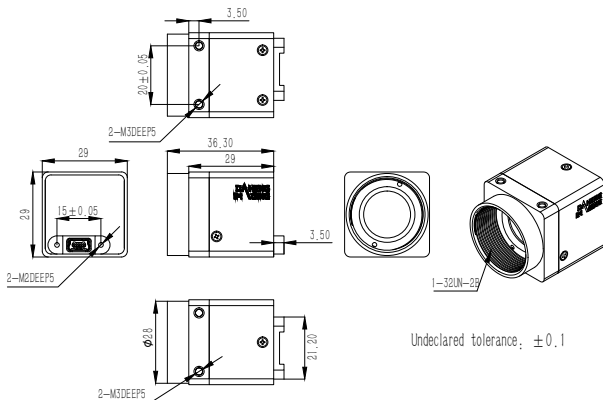
## Performance Specifications

|                 |  |
|-----------------|--|
| Model           | MER-310-12UC-L                               |
| Interface       | USB2.0                                       |
| Resolution      | 2048(H) × 1536(V)                            |
| Frame rate      | 12 fps                                       |
| Sensor          | 1/2", Rolling Shutter<br>Onsemi MT9T001 CMOS |
| Pixel size      | 3.2 μm × 3.2 μm                              |
| Pixel Bit Depth | 8bit, 10bit                                  |
| Spectrum        | Color  |
| Exposure time   | 151μs~1s                                     |

## Optical Specifications

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

## Technical Drawing



Units: mm

## Electrical Specifications

|                   |                     |
|-------------------|---------------------|
| Power requirement | 5 VDC via USB cable |
| I/Os              | -                   |
| Data interface    | Mini B              |
| Power consumption | <1W @5V DC          |

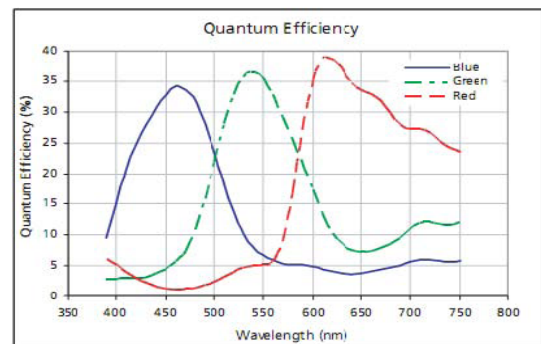
## Environmental Specifications

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

## Mechanical Specifications

|            |                                     |
|------------|-------------------------------------|
| Weight     | 40g                                 |
| Dimensions | 29(W)x29(H)x29(L)mm, w/o connectors |

## Spectral Response



MER-310-12UC-L

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Specifications are subject to change without prior notice.

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October 14, 2021