

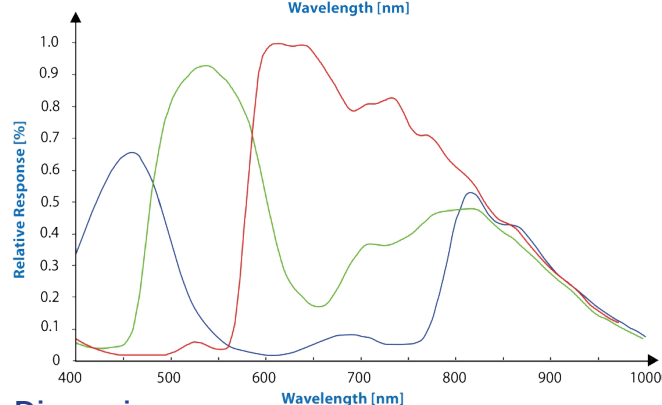
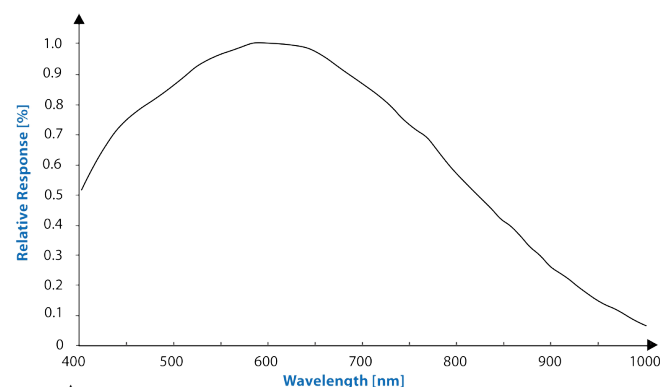
- 12MP @23.4 fps
- USB 3.0 interface with plug and play capability, USB3.0 power supply
- Compatible with USB3 Vision Protocol, GenICam Standard, and the third-party software based on these protocol and standard
- Support Windows、Linux
- 64 MB local memory for burst transmission and retransmission



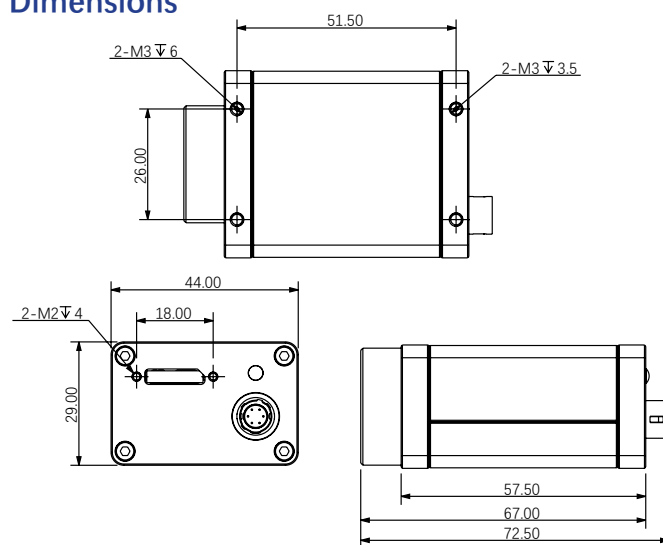
**Applied range** • Defect Detection • Surface Patch Detection • Visual Positioning • Size Measuring • QR Code Reading • VR/AR • Logistics

| Camera                     | Mars12MS-23um/uc                                                                                                 |
|----------------------------|------------------------------------------------------------------------------------------------------------------|
| Resolution [H*V]           | 4096 x 3000                                                                                                      |
| Sensor                     | Sony IMX304                                                                                                      |
| Sensor Size                | 1.1"                                                                                                             |
| Sensor Technology          | Global, CMOS                                                                                                     |
| Pixel Size [μm]            | 3.45 x 3.45                                                                                                      |
| Frame Rate [fps]           | 23.4                                                                                                             |
| Data Bit                   | 10bit                                                                                                            |
| Exposure Time              | 29μs~1s                                                                                                          |
| Dynamic Range              | 70dB                                                                                                             |
| Mono/Color                 | Mono/Color                                                                                                       |
| Image Format               | Monochrome: Mono8/10/10Packed<br>Color: BayerRG8/10/10Packed, BayerGB8/10/10Packed                               |
| Interface                  | USB 3.0                                                                                                          |
| Synchronization            | Via hardware trigger、software trigger or free run mode                                                           |
| Programmable Control [ISP] | Image resolution、RGB gain、Exposure time、Contrast ratio、Gamma form、Image rollovers、Raw、LUT、Black level correction |
| Housing Size [l*w*h]       | 29.0 × 29.0 × 29.0 mm (60g)                                                                                      |
| Operating Temperature      | -30~80 ° C (Storage), -30~50° C (Working)                                                                        |
| Lenses Mount               | C-Mount                                                                                                          |
| Digital I/O                | Opto-isolated input x 1, opto-isolated output x 1, and bi-directional custom non-isolated I/O x 1                |
| Power Input                | DC 6-24V, Supporting USB                                                                                         |
| Power Consumption          | 12V@ ≈ 4.0W                                                                                                      |
| Driver                     | Mars Series Camera Software Suite or 3rd party USB3 Vision Software                                              |
| Operating System           | Windows, Linux                                                                                                   |
| Conformity                 | USB3 Vision, GenICam                                                                                             |

### Spectral Response



### Dimensions



No.8, Xiyuan 9th Road West Lake District, Hangzhou 310030 China

Tel: 86-571-86888309, 86-571-86888307

Web: [www.visiondatum.com](http://www.visiondatum.com)

Email: [market@visiondatum.com](mailto:market@visiondatum.com)

