

Independent
Development

MV-UBS500C/M

USB2.0 has a simple structure, a variety of single-board modules, small size, which can effectively save product size, and is suitable for small instruments and small devices; no external power supply is required, easy to use, and high performance price ratio.

Application Industry :

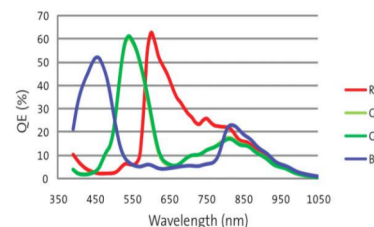
It is suitable for factory automation, college experiments, logistics code scanning, package printing and textiles.



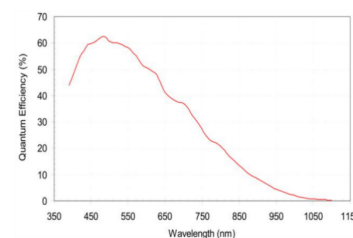
Product Features :

- USB2.0 interface, no need for external power supply, plug and play.
- Support 8bit to 12bit raw data output.
- Support external trigger, strobe synchronization.
- Support Windows, Linux and ARM Linux, Android system.
- With hardware frame buffer, support more than 32 cameras working at the same time.
- Custom data can be written in the camera.

Spectral Response Curve :



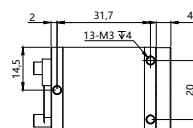
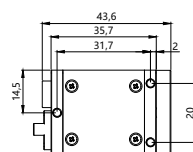
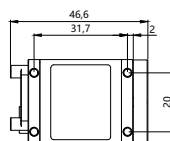
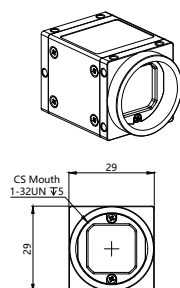
MV-UBS500C



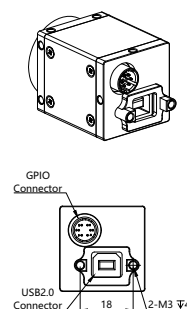
MV-UBS500M

Mechanical Specifications :

unit:mm



UBS-T



TECHNICAL PARAMETER

| Specifications | Model | MV-UBS500C | MV-UBS500M |
|-------------------------|-------|--|-----------------------|
| Sensor | | 1/2.5" CMOS | |
| Sensor type | | MT9P006 | MT9P031 |
| Camera type | | Color | Mono |
| Pixel size | | 2.2umx2.2um | |
| Effective pixels | | 5MP | |
| Resolution @ frame rate | | 2592x1944MAX@9fps | |
| Exposure mode | | Line exposure, global start | |
| Sensitivity | | 1.76 V/lux-sec (550nm) | 1.4 V/lux-sec (550nm) |
| Signal to noise ratio | | 38.5dB | 38.1dB |
| Dynamic range | | 67.74dB | 70.1dB |
| GPIO | | 1 optical isolation input, 2 optical isolation output | |
| Output pixel width | | 12bit | |
| AD width | | 12bit | |
| Frame buffer | | 32MB | |
| Exposure time range | | 0.0582~905.1ms | |
| Maximum gain (multiple) | | 7.88 | |
| User EEPROM | | 2KB | |
| Video output format | | Bayer GRBG 8/12bit | Mono 8/12bit |
| Lens interface | | C/CS port, providing adapter rings | |
| Data interface | | USB2. 0 | |
| Power supply | | 5V | |
| Power | | <2W | |
| Boundary dimension | | 29(mm)X29(mm)X35.7(mm)(Lens base and rear shell interface are not included) | |
| Weight | | <75g | |
| Working temperature | | 0~50°C | |
| Working humidity | | 20~80%(No Condensation) | |
| Storage temperature | | -30~60°C | |
| Storage humidity | | 20~95%(No Condensation) | |
| Operating system | | WINXP, WIN7 / 8/10 32 & 64-bit systems, Linux and ARM Linux drivers (customizable), Android platform drivers (customizable) | |
| Drive program | | DirectShow components Halcon special components Labview dedicated drive OCX components TWAIN components | |
| Programming language | | C/C++/C#/VB6/VB.NET/Delphi/BCB/Python/Java | |
| Other functions | | Support any size ROI custom resolution, contrast and gamma adjustment, saturation adjustment, white balance correction, black level correction, custom dead point coordinate correction,ISP image processing acceleration, 3D noise reduction, custom LUT table, frame rate adjustment, custom camera name, etc. | |

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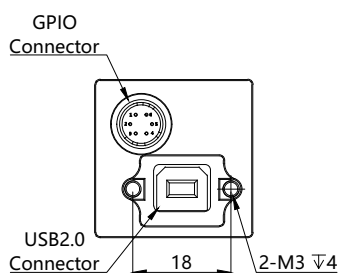

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-T Line Sequence Definition



| Port | Pin Number | Line Color | Signal Name | Signal Specification | Remark |
|-------|------------|------------|-----------------|--|--------------------------|
| PortA | 1 | Green | GP01+/STRB_OUT+ | GP01 positive terminal/Strobe output positive terminal | Default is strobe output |
| | 2 | Yellow | GP01-/STRB_OUT- | GP01 negative terminal/Strobe output negative terminal | Default is strobe output |
| | 3 | White | GPI1-/TRIG_IN+ | GPI1 positive terminal/Trigger input positive terminal | Default is trigger input |
| | 4 | Brown | GPI1-/TRIG_IN- | GPI1 negative terminal/Trigger input negative terminal | Default is trigger input |
| | 5 | Red | GP02+ | GP02 positive terminal output | |
| | 6 | Black | GP02- | GP02 negative terminal output | |

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