

2.3MP USB3 Vision Camera CMOS Global Shutter

High Performance 2.3 MP CMOS

STC-MBS231U3V 【Mono】

STC-MCS231U3V 【Color】

Sentech has released the STC-MB(C)S231U3V (41 fps) USB3 Vision Camera. This high performance camera is available at an outstanding price. Thanks to Global Shutter, this camera is capable of capturing moving objects with no problem. With the simplicity of USB 3.0, this camera allows any user to integrate this camera with ease.



Pregius



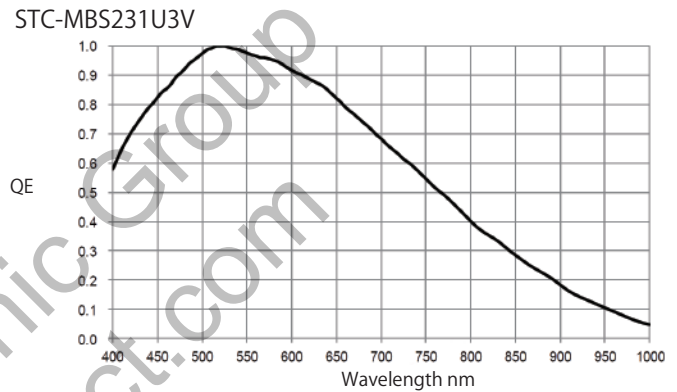
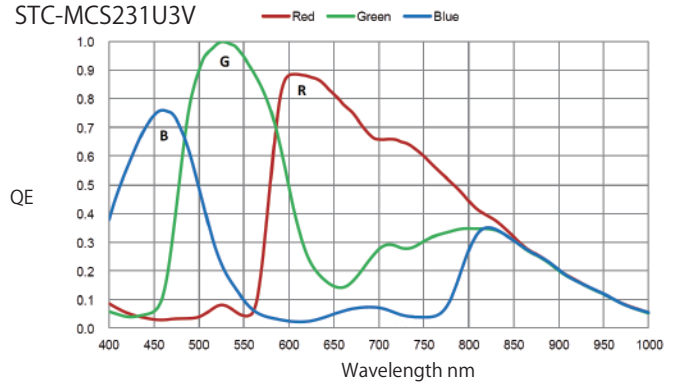
Features

- 1920 (H) x 1200 (V)
- 5.86 μm x 5.86 μm
- 41.6 fps
- 1/1.2" Sensor
- USB3 Vision Compliant
- Global Shutter
- USB 3.0 MicroB Connector
- 28 x 28 x 40 mm (excluding connectors)

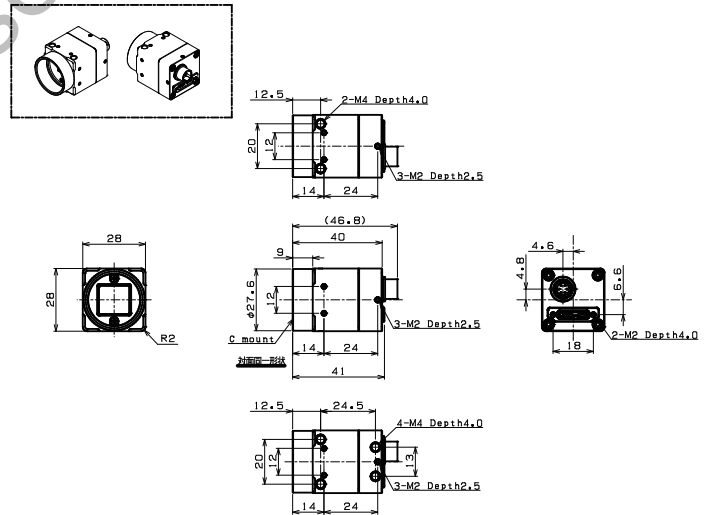
Specifications

| | |
|---------------------|--|
| Product Name | : STC-MCS231U3V (Color) STC-MBS231U3V (Mono) |
| Imager | : 1/1.2" 2.4M CMOS (SONY IMX249) |
| Shutter Type | : Global Shutter |
| Effective Pixels | : 1920 (H) x 1200 (V) |
| Cell Size | : 5.86 (H) x 5.86 (V) μm |
| Scanning Method | : Progressive |
| Scan Mode | : Full Scan |
| Frame Rate | : 41.6fps (RAW8,10bit)、32.4fps (RAW12bit) |
| Video Output | : 8/10/12 bit Raw Data |
| S/N Ratio | : 3 digit Less than (gain 0dB) |
| Sensitivity (Typ.) | : 1160 Lux (Color)、570 Lux (Mono) |
| ALC | : Auto Shutter / Auto Gain / Manual |
| Electronic Shutter | : Exposure Time 18.6 μsec ~ 20sec (Full Scan、RAW8bit) Exposure Time 23.4 μsec ~ 40sec (Full Scan、RAW10,12bit) |
| Analog Gain | : 0 dB ~ 24 dB |
| Digital Gain | : 0 dB ~ 6 dB |
| Offset | : 0 ~ 511 digit (RAW12bit)、0 ~ 127 digit (RAW10bit) 0 ~ 31 digit (RAW8bit) |
| ROI | : Supported |
| Binning | : Supported (Mono only, Horizontal & Vertical x 2) |
| Decimation | : Supported |
| Mirror Image | : Mirror / Upside Down / Left & Right Reversal |
| Pixels Defect | : Supported (Max. 64 pixels) |
| Correction | |
| Whit Balance | : Auto / Push to Set / Manual (Color only) |
| Operating Mode | : Free-Run / Edge Preset Trigger / Pulse Width Trigger / Start-Stop Trigger (Software trigger only) |
| Interface | : USB3.0 Super speed |
| IO (Input / Output) | : 3 GPIO / 1 Hardware Reset |
| Input Voltage | : +5V (typ.) (USB standard) |
| Consumption | : TBD |
| Dimensions | : 28 (W) x 28 (H) x 40 (D) mm (excluding connector) |
| Optical Filter | : IR Cut Filter (Color only) |
| Lens Mount | : C Mount |
| USB Connector | : USB 3.0 MicroB Connector |
| I/O Connector | : HR10A-7R-6PB (Hirose) or equivalent |
| Compliance | : RoHS Compliant |

Spectral Response



Drawings



※ Pregius is a trademark of Sony Corporation.

※ Specifications are subject to change without notice.