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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



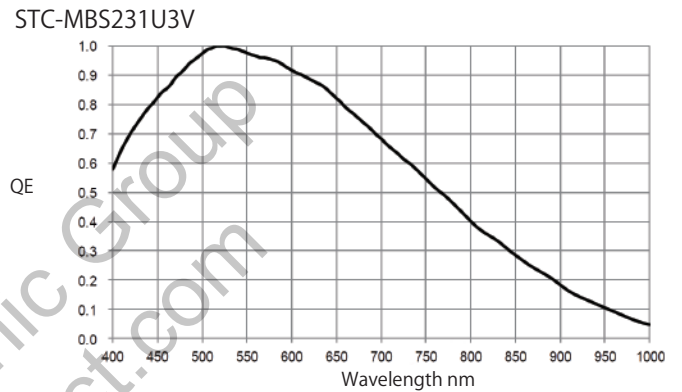
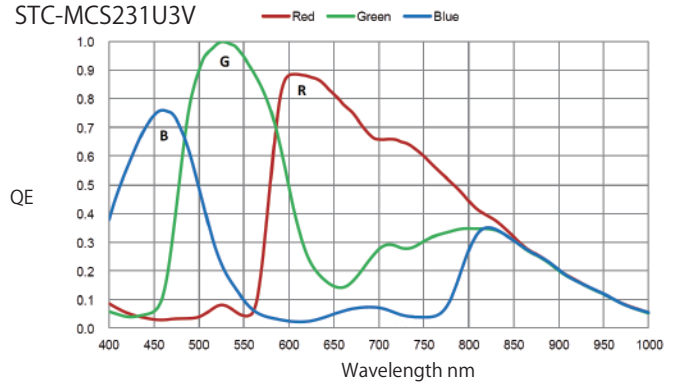
Features

- 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)

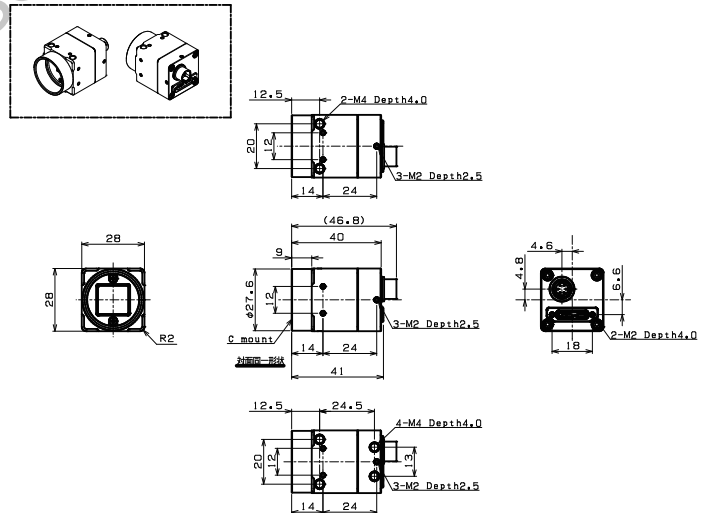
Specifications

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.