

# 1.3MP USB3 Vision Camera 60fps Global Shutter

**NEW**

## High Speed 1.3MP CMOS

# STC-MBE132U3V 【Mono】 STC-MCE132U3V 【Color】

Sentech has launched a brand new line of USB 3.0 cameras that adhere to the USB3 Vision Standard. This camera features 60fps at 1.3MP resolution, along with full AOI capabilities. The STC-MC(B)E132U3V utilizes Global Shutter to allow moving objects to be shot without problem. All of the power and precision of machine vision combines with the simplicity of USB 3.0 interface to achieve industrial camera bliss.



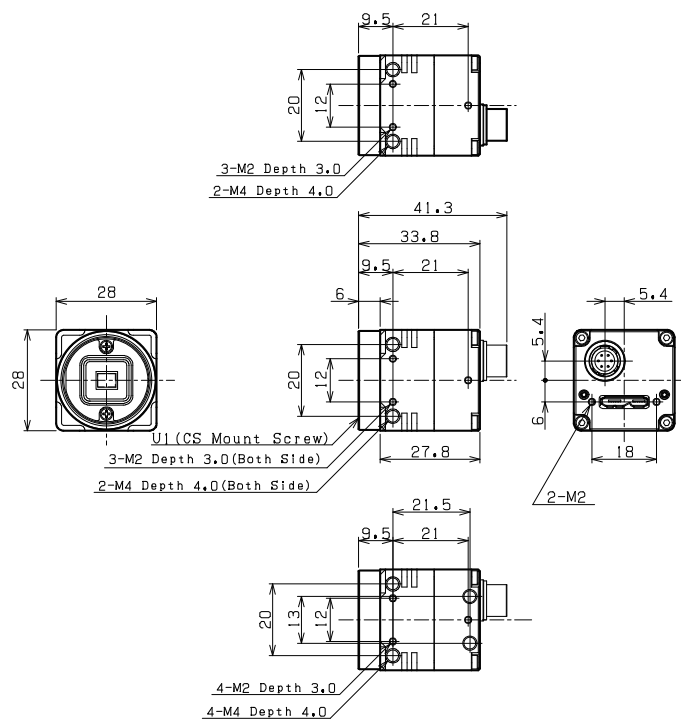
### Features

- 1280(H) x 1024(V)
- 5.3  $\mu\text{m}$  x 5.3  $\mu\text{m}$
- 60FPS
- 1/1.8" e2v Sensor
- USB Vision
- Global Shutter
- USB3.0 MicroB Connector
- 28x28x33.8mm (excluding connector)

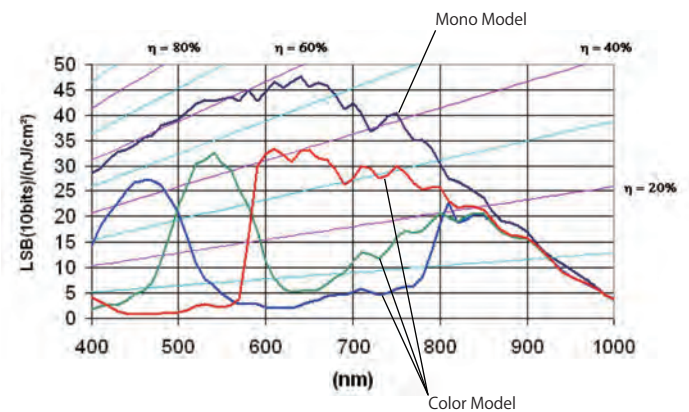
## Specifications

|                      |                                                                                                                                                                                                                                                                           |                                                                                                                                                                                  |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model Numbers        | • STC-MCE-200 (Color) • STC-MBE-200-3V (Mono)                                                                                                                                                                                                                             | • Digital Gain 1.00 ~ x128                                                                                                                                                       |
| Image Sensors        | • 1/1.8" CMOS • OV7660AC-EQT (Color) • OV7660-3V (Mono)                                                                                                                                                                                                                   | • Color Depth 10bit                                                                                                                                                              |
| Effective Pixels     | • 1920(H) x 1024(V)                                                                                                                                                                                                                                                       | • Horizontal 32, Vertical 32 ~ 1024 lines                                                                                                                                        |
| Pixel Cell Size      | • 2.3(H) x 2.3(V) $\mu$ m                                                                                                                                                                                                                                                 | • Minimum Incremental Horizontal/Vertical lines                                                                                                                                  |
| Scanning Method      | • Progressive Scan                                                                                                                                                                                                                                                        | • Horizontal 1/2, Vertical 1/2, 1/4                                                                                                                                              |
| Shutter Type         | • Rolling Shutter / Global Shutter                                                                                                                                                                                                                                        | • Horizontal & Vertical Rolling Sum cannot be set separately                                                                                                                     |
| Scan Mode            | • Full Scan / ROI                                                                                                                                                                                                                                                         | • This will not increase the frame rate                                                                                                                                          |
| Frame Rate           | <ul style="list-style-type: none"> <li>• 1.3M (1280 x 1024) : 60fps (Raw/10bit), 35fps (RGB8)</li> <li>• XGA (1024 x 768) : 90fps (Raw/8/10bit), 71fps (RGB8)</li> <li>• VGA (640 x 480) : 127fps (Raw/8/10bit), 106fps (RGB8)</li> <li>• Minimum ALC 32 ~ 321</li> </ul> | <ul style="list-style-type: none"> <li>• Vertical 1/2 ~ 1/4</li> <li>• ※Vertical &amp; Horizontal can be set separately</li> <li>• ※This will increase the frame rate</li> </ul> |
| Video Output Format  | • RGB8, RAW8bit/10bit (Color) • RAW8bit/10bit (Mono)                                                                                                                                                                                                                      | • Mirror Image : Horizontal Flip / Vertical Flip / Vertical & Horizontal Flip                                                                                                    |
| S/N Ratio (8bit)     | : less than 3 Digit (Gain 0 dB)                                                                                                                                                                                                                                           | • Pixel Defect Correction : 32 points maximum (Default : ON)                                                                                                                     |
| Minimum Illumination | : 28.14 lux at F1.2 (Color) • 0.26 lux at F1.2 (Mono)                                                                                                                                                                                                                     | • White Balance : Manual / One Shot / No Auto                                                                                                                                    |
| ALC                  | : Auto Shutter / Gain Auto / Manual                                                                                                                                                                                                                                       | • Operating Modes : Free-run / Edge- Preset Trigger                                                                                                                              |
| Electronic Shutter   | : Exposure Time: 16 $\mu$ s ~ 0.97s                                                                                                                                                                                                                                       | • Frame Memory : One Frame                                                                                                                                                       |
| Gain                 | : Analog 0 ~ 11.97dB                                                                                                                                                                                                                                                      | • Interface : USB3.0 Super speed (USB3.0 Micro B)                                                                                                                                |
|                      |                                                                                                                                                                                                                                                                           | • IO Input & Output : 2 Input / 2 Outputs                                                                                                                                        |
|                      |                                                                                                                                                                                                                                                                           | • Input Voltage : +5(typ.) (USB Standard)                                                                                                                                        |
|                      |                                                                                                                                                                                                                                                                           | • Power Consumption : less than 2.0 W                                                                                                                                            |

## Dimensions



## Spectral Sensitivity



※Specifications are subject to change without notice.