

# HSC-13M4-E

USB 3.0 Monochrome Camera & Opto-isolated I/O, 1/1.8" E2V CMOS, Global Shutter, 1280x1024 Pixels, without Lens, RoHS



## Features

- » Compact 1/1.8"e2V CMOS sensor with global shutter
- » Large pixel: 5.3  $\mu$ m / Frame rate: 60fps / Resolution: 1280x1024
- » High bandwidth, provides power and data over a single cable.
- » Lower cost implementation, Plug-and-play and easier to set up.
- » Adopted as "USB3 Vision" standard and supported vision software such as Halcon, Merlic, MIL, NI LabVIEW.

## Specifications

|                         |  |
|-------------------------|--|
| Appearance              |  |
| Dimension               | 29 mm x 29 mm x 57 mm  |
| Net Weight              | 85g  |
| Capture Interface       |  |
| Interface Type          | 1 x USB3.0   |
| Certifications          |  |
| Safety & EMC            | CE/EMC, FCC  |
| LED Safety              | CE/LVD   |
| Environment             |  |
| Operating Temperature   | 0° ~ 50°C  |
| Storage Humidity        | 30% ~ 95%  |
| Storage Temperature     | -30° ~ 60°C  |
| Operating Humidity      | 20% ~ 80%  |
| I/O Interface           |  |
| I/O Interface           | 1 x Trigger connection(IO connecting cable with an 8-pin male connector) |
| Others                  |  |
| Power Requirements      | 5V via USB 3.0 or 6-18V via Opto-isolated input                          |
| Parameters              |  |
| Opto-isolated I/O Ports | 1 input, 1 output  |
| ADC                     | 8-bit/10-bit   |
| Pixel Size              | 5.3 $\mu$ m  |
| Readout Method          | Global shutter   |
| Resolution              | 1280 x 1024  |
| Sensor Name             | E2V EV76C560   |
| Sensor Type             | CMOS   |
| Non-isolated I/O Ports  | 1 x RS-232   |
| Sensor Size (inch)      | 1/1.8"   |
| Auxiliary Output        | 5V, 100 mA max   |
| Chroma                  | Mono   |
| Compliance              | CE, FCC  |
| Frame Rate              | 60FPS (Max)  |
| Interface               | USB3 Vision v1.0   |
| Lens Mount              | CS-mount   |
| Megapixels              | 1.3-megapixel  |
| Software Support        |  |

|                       |                                       |
|-----------------------|---------------------------------------|
| SDK                   | Windows                               |
| OS Support            | Microsoft Windows 10 32-bit           |
|                       | Microsoft Windows 10 64-bit           |
|                       | Microsoft Windows 7 32-bit            |
|                       | Microsoft Windows 7 64-bit            |
|                       | Microsoft Windows 8.1 32-bit          |
|                       | Microsoft Windows 8.1 64-bit          |
| Sensor Specifications |                                       |
| Acquisition           | Continuous, Single Frame, Multi Frame |

## Ordering Information

|                |   |
|----------------|---|
| HSC-13M4-E-R10 | USB3.0 Monochrome Industrial camera, 1/1.8-inch/1280 x 1024 pixel, 60FPS/E2V/CMOS |
|----------------|---|

## Packing List

|                           |                      |
|---------------------------|----------------------|
| 1 x HSC-13M4-E            | 1 x Mounting bracket |
| 1 x CS to C mount adapter | 1 x QIG              |