

HSC-13M3-O

USB 3.0 Monochrome Camera & Opto-isolated I/O, 1/2" On-semi CMOS, Global Shutter, 1280x1024 Pixels, without Lens, RoH



Features

- » Compact 1/2" On-Semi CMOS sensor with global shutter
- » Large pixel: 4.8  m / Frame rate: 140fps / 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 | 4.8  m |
| Readout Method | Global shutter |
| Resolution | 1280 x 1024 |
| Sensor Name | On-Semi PYTHON 1300 |
| Sensor Type | CMOS |
| Machine Vision Standard | USB3 Vision v1.0 |
| Non-isolated I/O Ports | 1 RS-232 |
| Sensor Size (inch) | 1/2" |
| Auxiliary Output | 5V, 100 mA max |
| Chroma | Mono |
| Compliance | CE, FCC |
| Frame Rate | 150FPS (Max) |
| Interface | USB 3.0 |
| Lens Mount | CS-mount |
| Megapixels | 1.3 MP |

| Software Support | |
|-----------------------|---------------------------------------|
| SDK | 1 x Windows |
| OS Support | 1 x Microsoft Windows 10 32-bit |
| | 1 x Microsoft Windows 10 64-bit |
| | 1 x Microsoft Windows 7 32-bit |
| | 1 x Microsoft Windows 7 64-bit |
| | 1 x Microsoft Windows 8.1 32-bit |
| | 1 x Microsoft Windows 8.1 64-bit |
| Sensor Specifications | |
| Acquisition | Continuous, Single Frame, Multi Frame |

Ordering Information

| | |
|----------------|---|
| HSC-13M3-O-R10 | USB 3.0 Monochrome Camera & Opto-isolated I/O, 1/2" On-semi CMOS, Global Shutter, 1280x1024 pixel, without Lens, RoHS |
|----------------|---|

Packing List

| | |
|---------------------------|----------------------|
| 1 x HSC-13M3-O | 1 x Mounting bracket |
| 1 x CS to C mount adapter | 1 x QIG |