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