HC-CE013-80UM

1.3 MP 1/2.7" CMOS USB3.0 Area Scan Camera

Introduction

HC-CE013-80UM provides high-quality image. It uses USB3.0 interface to transmit non-compressed images in real time, and its max. frame rate can reach 148 fps in full resolution.

Key Feature

- Supports auto and manual adjustment for gain, exposure control, LUT, Gamma correction, etc.
- Supports hardware triggering, software triggering and free run mode.
- Adopts M2 screw holes for securing cable that connects USB3.0 interface.
- Compatible with USB3 Vision Protocol, GenlCam Standard, and the third-party software based on these protocol and standard.
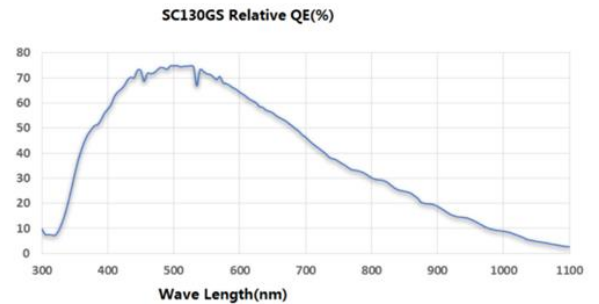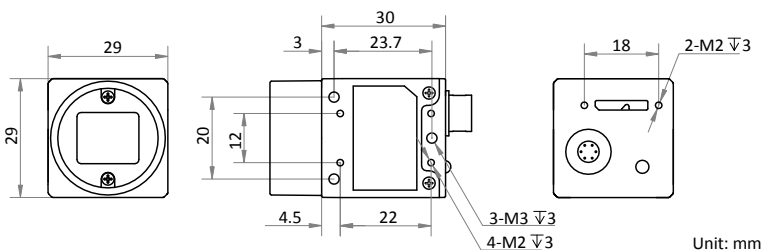
Available Model

Mono camera: HC-CE013-80UM

Applicable Industry

Electronic semiconductor, factory automation, liquor and beverage, medicine packing, etc.

Sensor Quantum Efficiency

SC130GS Relative QE(%)

Dimension

Unit: mm

Specification

Model	HC-CE013-80UM
Camera	
Sensor type	CMOS, global shutter
Sensor model	SS
Pixel size	4.0 µm × 4.0 µm
Sensor size	1/2.7"
Resolution	1280 × 1024
Max. frame rate	148 fps @1280 × 1024
Dynamic range	60 dB
SNR	40 dB
Gain	0 dB to 20 dB
Exposure time	30 µs to 1 sec
Exposure mode	Off/Once/Continuous exposure mode
Mono/color	Mono
Pixel format	Mono 8/10/10p/12/12p
Binning	Not support
Decimation	Not support
Reverse image	Supports horizontal and vertical reverse image output
Electrical feature	
Data interface	USB3.0, compatible with USB2.0
Digital I/O	6-pin Hirose connector provides power and I/O, including opto-isolated input × 1 (Line 0), opto-isolated output × 1(Line 1), and bi-directional non-isolated I/O × 1 (Line 2)
Power supply	12 VDC, supports USB3.0 power supply
Power consumption	Typ. 1.93 W@5 VDC (USB3.0 provides power supply)
Mechanical	
Lens mount	C-Mount
Dimension	29 mm × 29 mm × 30 mm (1.1" × 1.1" × 1.2")
Weight	Approx. 56 g (0.12 lb.)
Ingress protection	IP30 (under proper lens installation and wiring)
Temperature	Working temperature: 0 °C to 50 °C (32 °F to 122 °F) Storage temperature: -30 °C to 70 °C (-22 °F to 158 °F)
Humidity	20% to 80% RH, non-condensing
General	
Client software	MVS or third-party software meeting with USB3.0 Vision Protocol
Operating system	32/64-bit Windows XP/7/10, 32/64-bit Linux and 64-bit MacOS
Compatibility	USB3 Vision, GenlCam
Certification	CE, FCC, RoHS, KC