CHGM-38M

0.4 MP 1/2.9" CMOS GigE Area Scan Camera

GEN<i>CAM

GiGE VISION

Introduction

CHGM-38M adopts Sony® IMX 287 sensor and GigE interface to provide high-quality image and non-compressed images in real time. Its max. frame rate reaches up to 312.9 fps in full resolution.

Key Feature

- Adopts GigE interface and max. transmission distance of 100 meters without relay.
- Supports auto and manual adjustment for exposure control, LUT, Gamma correction, etc.
- Up to 128 MB local memory for burst transmission.
- Supports hardware trigger, software trigger, etc.
- Compatible with GigE Vision V2.0 Protocol, GenlCam Standard, and third-party software based on the protocol and standard.
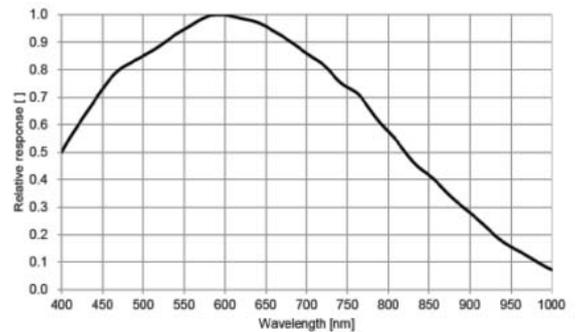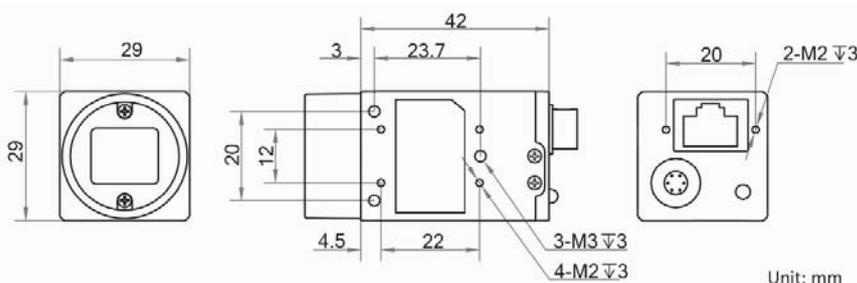
Dimension

Unit: mm

Available Model

CHGM-38M

Applicable Industry

Electronic semiconductor, factory automation, food and beverage, medical packaging, etc.

Sensor Quantum Efficiency

Specification

Model	CHGM-38M
Camera	
Sensor type	Global shutter CMOS
Sensor model	Sony® IMX287
Pixel size	6.9 μm × 6.9 μm
Sensor size	1/2.9"
Resolution	720 × 540
Max. frame rate	312.9 fps @720 × 540
Dynamic range	74 dB
SNR	41 dB
Gain	0 dB to 20 dB
Exposure time	1 μs to 10 s
Shutter 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
Image buffer	128 MB
Electrical features	
Data interface	Gigabit Ethernet interface
Digital I/O	6-pin Hirose connector provides power supply and I/O, including opto-isolated Input x 1 (Line 0), opto-isolated Output x 1 (Line 1), and bi-directional non-isolated I/O x 1 (Line 2).
Power supply	9 VDC to 24 VDC, supports PoE
Power	Approx. 3.1 W@12 VDC
Structure	
Lens mount	C-Mount
Dimension	29 mm × 29 mm × 42 mm (1.1" × 1.1" × 1.7")
Weight	Approx. 68 g (0.15 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% without condensation
General	
Client software	MVS or third-party software meeting with GigE Vision Protocol
Operation system	32/64-bit Windows XP/7/10, 32/64-bit Linux and 64-bit MacOS
Compatibility	GigE Vision V2.0, GenICam
Certifications	CE, FCC, RoHS, KC