MV-CI013-GS-NN

1.3 MP Industrial Short Wave Infrared Camera

GEN<i>CAM

GigE VISION

Introduction

MV-CI013-GS-NN camera adopts InGaAs sensor and has built-in multiple ISP functions. It uses GigE interface to transmit non-compressed images in real time, and its max. frame rate can reach 91 fps in full resolution.

Key Feature

- Adopts InGaAs sensor and supports spectral imaging of 0.4 μm to 1.7 μm.
- Multiple ISP functions like digital noise reduction, contrast ratio, etc.
- Adopts compact structure and design to meet spatial requirements.
- Adopts GigE interface and max. transmission distance of 100 meters without relay.
- Compatible with GigE Vision V2.0 Protocol, GenlCam Standard, and third-party software based on the protocol and standard.
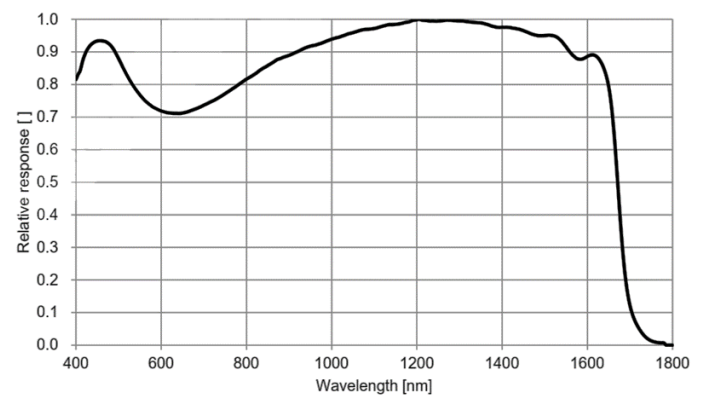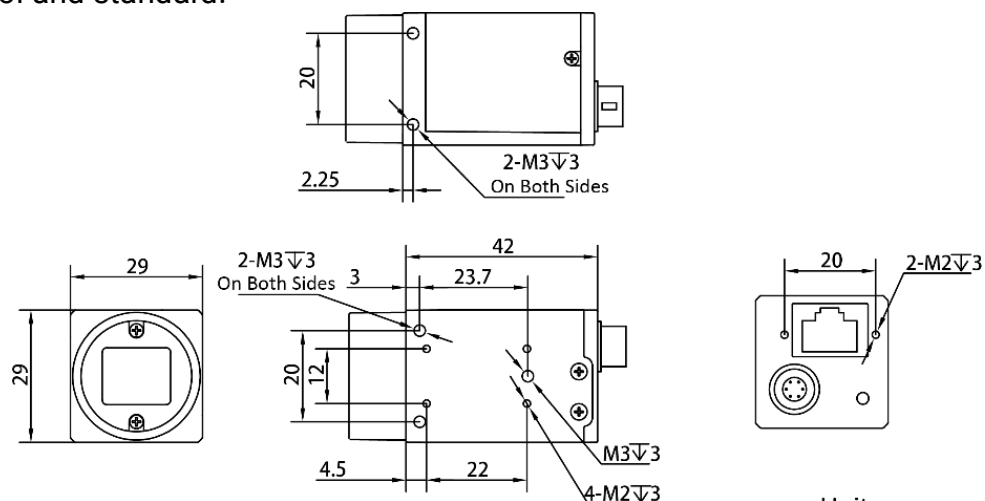
Available Model

MV-CI013-GS-NN

Applicable Industry

Semiconductor, glass cover plate, garbage classification, hyperspectral applications, etc.

Sensor Quantum Efficiency

Dimension

Unit: mm

Specification

Model	MV-CI013-GS-NN
Performance	
Sensor type	InGaAs
Sensor model	Sony® IMX990
Pixel size	5 µm × 5 µm
Sensor size	1/2"
Resolution	1280 × 1024
Max. frame rate	91 fps @1280 × 1024 Mono 8
Dynamic range	56 dB
SNR	52.2 dB
Gain	0 dB to 18 dB
Exposure time	UltraShort exposure mode: 3 µs to 7 µs
	Standard exposure mode: 8 µs to 0.1 sec
Exposure mode	Off/Once/Continuous exposure mode
Pixel format	Mono 8/10/10Packed/12/12Packed
Binning	Supports 1 × 1, 2 × 2, 4 × 4
Decimation	Supports 1 × 1, 2 × 2
Reverse image	Supports horizontal and vertical reverse image output
Electrical feature	
Data interface	Gigabit Ethernet, compatible with Fast Ethernet
Digital I/O	6-pin P7 connector provides power and I/O, including opto-isolated input × 1 (Line 0), opto-isolated output × 1 (Line 1), bi-directional non-isolated I/O × 1 (Line 2)
Power supply	9 VDC to 24 VDC, supports PoE
Power consumption	Typ. 2.7 W@12 VDC
Mechanical	
Lens mount	C-mount
Dimension	29 mm × 29 mm × 42 mm (1.1" × 1.1" × 1.2")
Weight	Approx. 100 g (0.22 lb.)
Ingress protection	IP40 (under proper lens installation and wiring)
Temperature	Working temperature: -30 °C to 50 °C (-22 °F to 122 °F)
	Storage temperature: -30 °C to 70 °C (-22 °F to 158 °F)
Humidity	20% to 95% RH, non-condensing
General	
Client software	MVS or third-party software meeting with GigE Vision Protocol
Operating system	32/64-bit Windows XP/7/10, 64-bit Windows 11, 32/64-bit Linux and 64-bit MacOS
Compatibility	GigE Vision V2.0, GenICam
Certification	CE, RoHS, KC