

MV-CI013-GS-TF

1.3MP Industrial Short Wave Infrared Camera



GEN< i >CAM

GiGE
VISION

Introduction

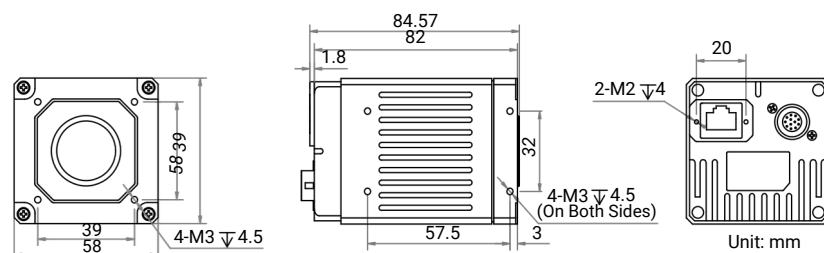
MV-CI013-GS-TF camera adopts InGaAs sensor and has built-in multiple ISP functions. It uses GigE interface to transmit non-compressed images in real time, and its

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 .
- ☐ Supports TEC to provide good cooling effect.
- ☐ Multiple ISP functions like digital noise reduction, contrast ratio, etc.
- ☐ Adopts compact structure and design to meet spatial requirements.
- ☐ Compatible with GigE Vision V2.0 Protocol, GenICam Standard, and third-party software based on the protocol and standard.

Dimension



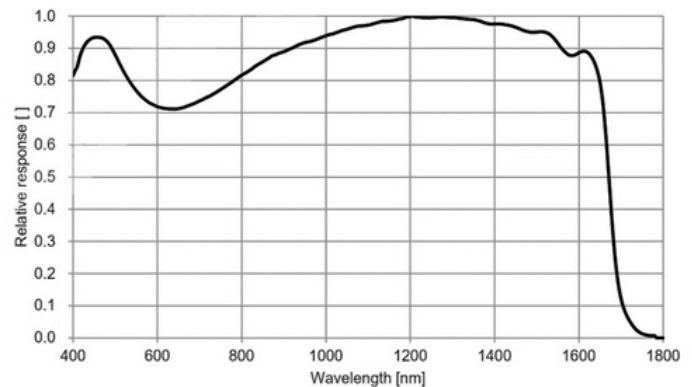
Available Model

MV-CI013-GS-TF

Applicable Industry

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

Sensor Quantum Efficiency



Model	MV-CI013-GS-TF
Performance	
Sensor type	InGaAs
Sensor model	Sony® IMX990
Pixel size	5 μm × 5 μm
Sensor size	1/2"
Resolution Max.	1280 × 1024
frame rate	91 fps @ 1280 × 1024
Dynamic range	56 dB
SNR Gain	52.2 dB
Exposure time	0 dB to 18 dB
	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 (1000 Mbit/s), compatible with Fast Ethernet (100 Mbit/s)
Digital I/O	12-pin P10 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), RS-232 × 1
Power supply	9 VDC to 24 VDC
Power consumption	Typ. 11.7 W @ 12 VDC (TEC enabled)
Mechanical	
Lens mount	C-mount
Installation method	Installation via three-side screw holes
Dimension	58 mm × 58 mm × 82 mm (2.3" × 2.3" × 3.2")
Weight	Approx. 470 g (1.0 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% RH to 95% RH (no condensation)
General	
Client software	MVS or third-party software meeting with GigE Vision Protocol
Operating system	32/64-bit Windows 7/10, 64-bit Windows 11, and 32/64-bit Linux
Compatibility	GigE Vision V2.0, GenICam
Certification	CE, RoHS, KC