

MV-CI003-GL-Nx

0.3 MP GigE Industrial Long Wave Infrared Camera



GEN< i >CAM

GigE
VISION

Introduction

MV-CI003-GL-Nx camera adopts a high-sensitivity vanadium oxide uncooled detector with a response band of 8 μm to 14 μm , and supports multiple palette modes. It uses GigE interface to transmit images in real time, and its max. frame rate can reach 50 fps in full resolution.

Available Model

- 6.3 mm focal length: MV-CI003-GL-N6
- 15 mm focal length: MV-CI003-GL-N15
- 25 mm focal length: MV-CI003-GL-N25
- 35 mm focal length: MV-CI003-GL-N35

Applicable Industry

Photovoltaics, lithium battery, consumer electronics, etc.

Key Feature

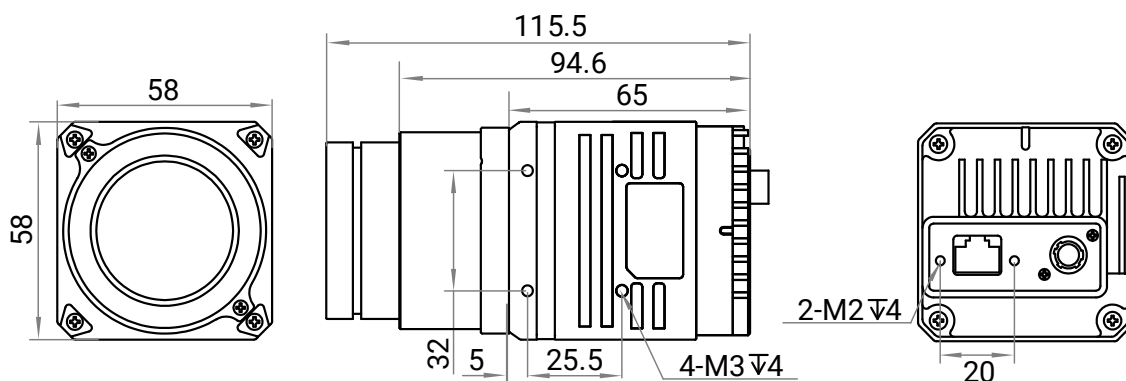
- Adopts high-sensitivity vanadium oxide uncooled detector with 0.3 MP.
- Supports multiple palette modes, grayscale detection, image adjustment, etc.
- Compact design with mounting holes on panels for flexible mounting from 4 sides.
- Adopts GigE interface and max. transmission distance of 100 meters without relay.
- Compatible with GigE Vision V2.0 Protocol, GenICam Standard.

Specification

Model	MV-CI003-GL-N6	MV-CI003-GL-N15	MV-CI003-GL-N25	MV-CI003-GL-N35
Performance				
Sensor type	Vanadium oxide uncooled detector			
Pixel size	17 μm			
Resolution	640 × 512			
Max. frame rate	50 fps @ 640 × 512			
NETD	< 35 mk (F1.0, 25 °C)			
Response time	< 10 ms			
Pixel format	Mono 8/12/14, YUV422_YUYV_Packed			
Color palettes	White Hot, Black Hot, Fusion 1, Rainbow, Fusion 2, Ironbow 1, Ironbow 2, Sepia, Color 1, Color 2, Ice Fire, Rain, Green Hot, Red Hot, Dark Blue			
Image process	Supports brightness, contrast, image detail strength, digital noise reduction (spatial and temporal)			
Focal length	6.3 mm	15 mm	25 mm	35 mm
Field of view	88.5° × 73.2°	42.4° × 33.6°	24.6° × 18.5°	17.9° × 14.2°
Min. operation distance	0.1 m	0.1 m	0.25 m	0.45 m
Electrical feature				
Data interface	Gigabit Ethernet (1000 Mbit/s), compatible with Fast Ethernet (100 Mbit/s)			
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. 2.5 W @ 12 VDC			
Mechanical				
Lens mount	M34*0.75			
Dimension	58 mm × 58 mm × 115.5 mm (2.3" × 2.3" × 4.5")	58 mm × 58 mm × 102.5 mm (2.3" × 2.3" × 4.0")	58 mm × 58 mm × 96.9 mm (2.3" × 2.3" × 3.8")	58 mm × 58 mm × 115.5 mm (2.3" × 2.3" × 4.5")
Weight	Approx. 275 g (0.6 lb.)			
Ingress protection	IP40 (under proper lens installation and wiring)			
Temperature	Working temperature: −30 °C to 60 °C (−22 °F to 140 °F) Storage temperature: −30 °C to 70 °C (−22 °F to 158 °F)			
Humidity	20% RH to 90% 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			

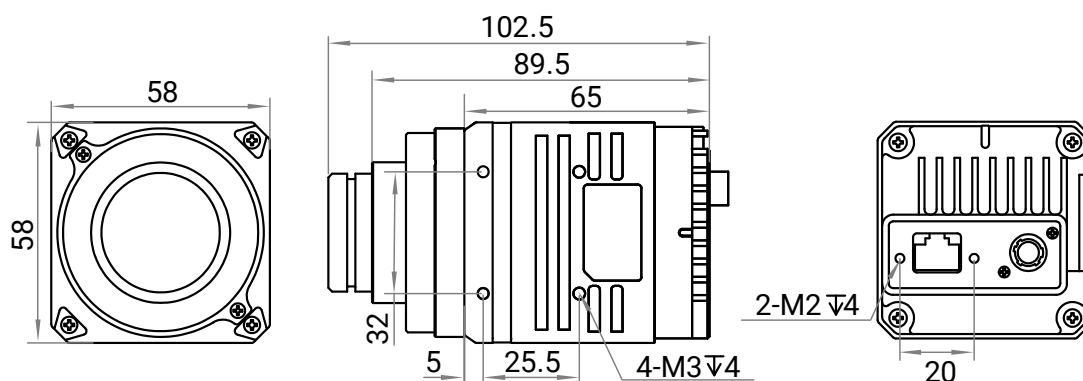
Dimension

MV-CI003-GL-N6 (N35)



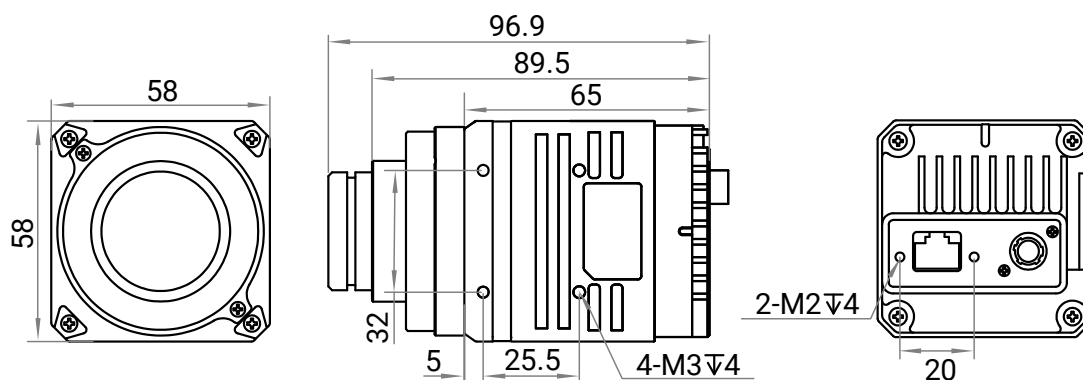
Unit: mm

MV-CI003-GL-N15



Unit: mm

MV-CI003-GL-N25



Unit: mm