MV-CI003-GL-Tx

0.3 MP GigE Industrial Long Wave Infrared Camera

Introduction

MV-CI003-GL-Tx camera adopts a high-sensitivity vanadium oxide uncooled detector, and supports temperature measurement, drawing region, alarm, and 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

MV-CI003-GL-T6

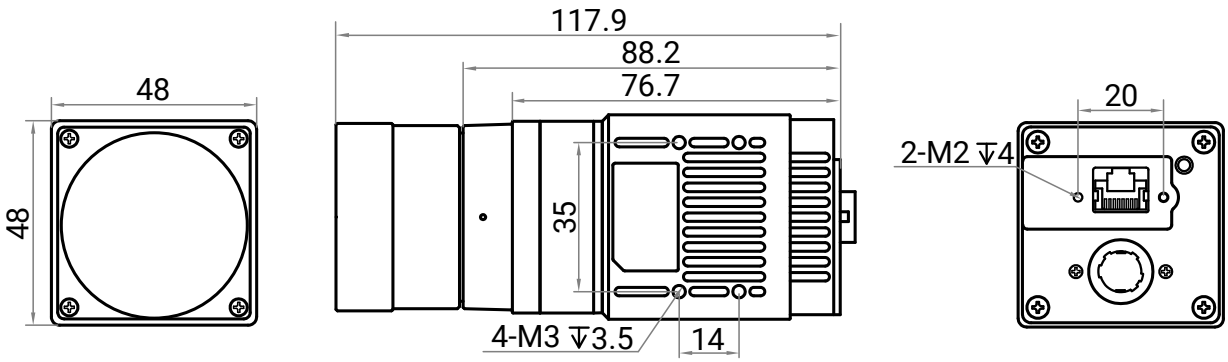
Applicable Industry

Photovoltaics, packaging, lithium battery, auto parts manufacturing, consumer electronics, etc.

Dimension

Key Feature

- Adopts high-sensitivity vanadium oxide uncooled detector with 0.3 MP.
- Supports temperature measurement rules of point, polygon, line and circle.
- Supports single-region and multi-region temperature measurement alarm settings.
- 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, and third-party software based on the protocol and standard.



Unit: mm

Specification

Model	MV-CI003-GL-T6
Performance	
Sensor type	Vanadium oxide uncooled detector
Pixel size	17 μm
Resolution	640 × 512
Max. frame rate	50 fps @ 640 × 512
NETD	< 50 mk (F1.0, 30 °C)
Pixel format	Mono 16, Float 32, YUV422 (YUYV) Packed, YUV 422 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
Image process	Supports brightness, contrast, Gamma correction
Focal length	6.3 mm
Field of view	88.5° × 73.2°
Space resolution	2.70
Aperture	1.0
Thermal object distance	0.6 m
Temperature measurement range	−20 °C to 150 °C or 0 °C to 550 °C (−4 °F to 302 °F or 32 °F to 1022 °F)
Temperature measurement accuracy	± 2 °C (35.6 °F) or ± 2% of the readings
Max. temperature measurement distance	5 m (@ target size 01 × 0.1 m^2)
Electrical feature	
Data interface	Gigabit Ethernet, compatible with Fast Ethernet
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).
Power supply	9 VDC to 24 VDC
Power consumption	Typ. 2.8 W @ 12 VDC
Mechanical	
Installation method	Supports installation from 4 sides
Dimension	48 mm × 48 mm × 117.9 mm (1.9" × 1.9" × 4.6")
Weight	Approx. 370 g (0.8 lb.)
Ingress protection	IP40 (under proper lens installation and wiring)
Temperature	Working temperature: −20 °C to 60 °C (−4 °F to 140 °F) Storage temperature: −30 °C to 70 °C (−22 °F to 158 °F)
Humidity	20% RH to 80% RH (no condensation)
General	
Client software	MVS
Operating system	32/64-bit Windows 7/10 and 32/64-bit Linux.
Compatibility	GigE Vision V2.0, GenICam
Certification	CE, RoHS, KC