MV-CL024-91GM

2048 P CMOS GigE Line Scan Camera



Introduction

MV-CL024-91GM camera adopts CMOS sensor to provide high-quality images and integrates multiple ISP image algorithms and functions. It supports line trigger, frame trigger, line + frame trigger, etc. It uses GigE interface to transmit images in real time and its max. line rate can reach 86 kHz in high-bandwidth mode.

Key Feature

- Supports TDI and image high-bandwidth function.
- Supports Gamma correction, FFC correction, LUT, black level, etc.
- Adopts bi-directional I/O and flexible configuration for input/output signals.
- Supports flexible installation from different sides.
- Compatible with GigE Vision V2.0 protocol and GenICam standard.

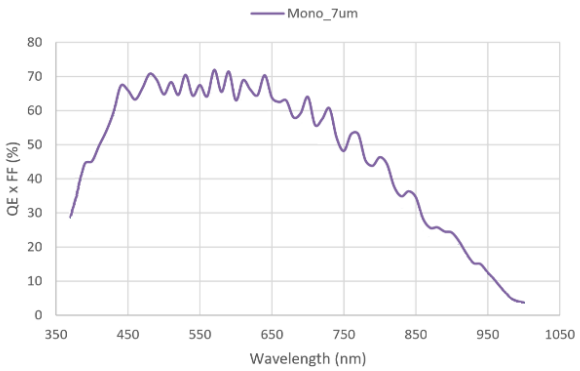
Available Model

MV-CL024-91GM

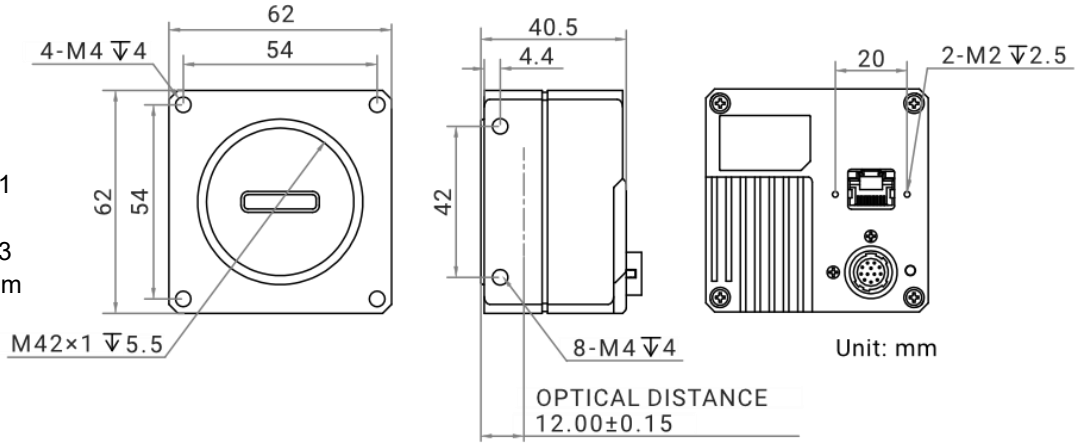
Applicable Industry

Photovoltaics, lithium battery, railway, textiles, logistics, metallurgy, material sorting, etc.

Sensor Quantum Efficiency



Dimension



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Specification

Model	MV-CL024-91GM
Camera	
Sensor type	CMOS
Pixel size	7 μm × 7 μm
Resolution	2048 × 2
Image mode	Supports 1-line, 2-TDI
Max. line rate*	Standard mode: 58 kHz @ Mono 8, 29 kHz @ Mono 10/12 High-bandwidth mode: 86 kHz @ Mono 8, 58 kHz @ Mono 10/12
Dynamic range	68 dB
SNR	44.7 dB
Gain	1.0 ×
Exposure time	3 μs to 10 ms
Exposure mode	Off/Once/Continuous exposure mode, and supports trigger-width exposure
Mono/color	Mono
Pixel format	Mono 8/10/12
Binning	Supports 1 × 1, 2 × 2, 4 × 4
Reverse image	Supports horizontal reverse image output
Trigger mode	External trigger, internal trigger
External trigger mode	Line trigger, frame trigger, line + frame trigger
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: Configurable input/output × 4 (Line 0/1/3/4) and single-ended/differential is supported.
Power supply	12 VDC to 24 VDC, supports PoE
Power consumption	Typ. 5.2 W @ 12 VDC
Mechanical	
Lens mount	M42*1.0, flange back length 12 mm, applicable to F-mount, C-mount and others via lens adapter
Dimension	62 mm × 62 mm × 40.5 mm (2.4" × 2.4" × 1.6")
Weight	Approx. 256 g (0.6 lb.)
Ingress protection	IP40 (under proper lens installation and wiring)
Temperature	Working temperature: –20 °C to 55 °C (–4 °F to 131 °F) Storage temperature: –30 °C to 80 °C (–22 °F to 176 °F)
Humidity	5% RH to 90% RH (no condensation)
General	
Client software	MVS or the third-party software meeting with GigE Vision protocol
Operating system	32/64-bit Windows 7/10, 64-bit Windows 11, 32/64-bit Linux
Compatibility	GigE Vision V2.0, GenICam
Certification	CE, RoHS, KC

**The actual line rate after enabling high-bandwidth mode depends on images of objects, and max. line rate in high-bandwidth mode is for reference only.*

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