HIKROBOT®

MV-CL024-91GC

2048 P CMOS GigE Line Scan Camera

GEN<i>CAM

GiGE VISION®

Introduction

MV-CL024-91GC 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 70 kHz in high-bandwidth mode.

Key Feature

- Supports RGB true color output 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 GenlCam standard.
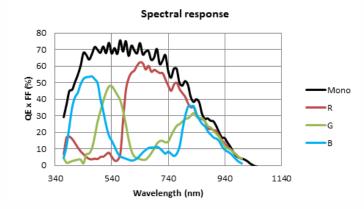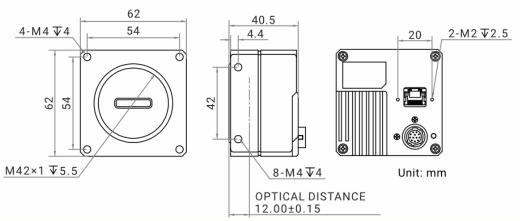
Available Model

MV-CL024-91GC

Applicable Industry

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

Sensor Quantum Efficiency

Spectral response

Dimension

Unit: mm

OPTICAL DISTANCE 12.00±0.15

Specification

Model	MV-CL024-91GC
Camera	
Sensor type	CMOS
Pixel size	7 μm
Resolution	2048 × 3
Max. line rate*	Standard mode: 58 kHz @Mono 8/Bayer RG 8/10/12, 19 kHz @RGB 8/BGR 8
	High-bandwidth mode: 70 kHz @Bayer RG 8/Mono 8, 40 kHz @RGB 8
Dynamic range	68 dB
SNR	44.7 dB
Gain	Supports 1.0 ×
Exposure time	3 μs to 10 ms
Exposure mode	Off/ Once/ Continuous exposure mode, and supports trigger-width exposure
Mono/color	Color
Pixel format	Mono 8, Bayer RG 8/10/12, RGB 8, BGR 8
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, compatible with Fast Ethernet
Digital I/O	12-pin P10 connector provides power supply and I/O: configurable output and input × 4 (Line 0/1/3/4), supports single-end/differential
Power supply	12 VDC to 24 VDC, supports PoE
Power consumption	Typ. 5.7 W @12 VDC
Mechanical	
Lens mount	M42 *1.0, optical back focal length: 12 mm (0.5"), 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% to 90% RH, non-condensing
General	
Client software	MVS or the third-party software meeting with GigE Vision protocol
Operating system	32/64-bit Windows XP/7/10, 32/64-bit Linux, and 64-bit MacOS
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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