

# 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 80 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 GenICam standard.

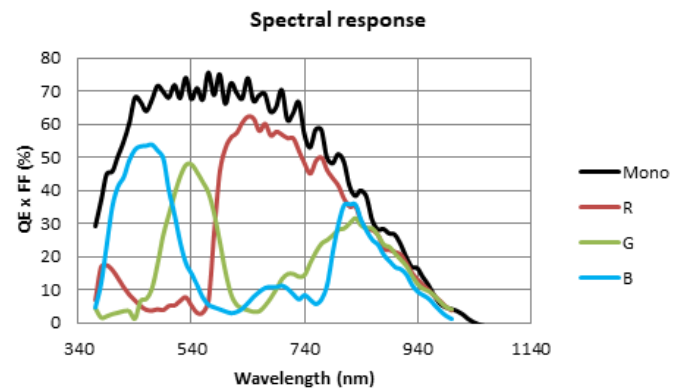
## Available Model

MV-CL024-91GC

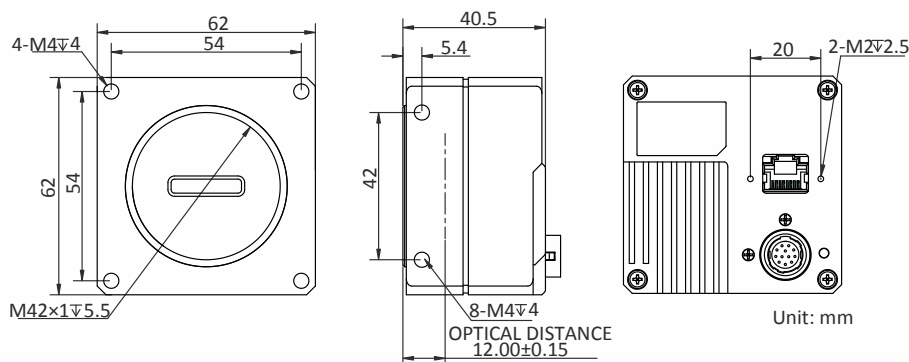
## Applicable Industry

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

## Sensor Quantum Efficiency



## Dimension



# Specification

<b>Model</b>	<b>MV-CL024-91GC</b>
<b>Camera</b>	
<b>Sensor type</b>	CMOS
<b>Pixel size</b>	7 $\mu\text{m}$
<b>Resolution</b>	2048 $\times$ 3
<b>Max. line rate</b>	Standard mode: 58 kHz@Mono 8/Bayer RG 8, 19 kHz@RGB 8/BGR 8, 29 kHz@Bayer RG 10 12 High-bandwidth mode: 80 kHz@Bayer RG 8/Mono 8, 40 kHz@RGB 8 /BGR 8/Bayer RG 10 12
<b>Dynamic range</b>	68 dB
<b>SNR</b>	44.7 dB
<b>Gain</b>	Supports 1.0 $\times$
<b>Exposure time</b>	3 $\mu\text{s}$ to 10 ms
<b>Exposure mode</b>	Off/ Once/ Continuous exposure mode, and supports trigger-width exposure
<b>Mono/color</b>	Color
<b>Pixel format</b>	Mono 8, Bayer RG 8/10/12, RGB 8, BGR 8
<b>Binning</b>	Supports 1 $\times$ 1, 2 $\times$ 2, 4 $\times$ 4
<b>Reverse image</b>	Supports horizontal reverse image output
<b>Trigger mode</b>	External trigger, internal trigger
<b>External trigger mode</b>	Line trigger, frame trigger, line + frame trigger
<b>Electrical feature</b>	
<b>Data interface</b>	Gigabit Ethernet, compatible with Fast Ethernet
<b>Digital I/O</b>	12-pin P10 connector provides power supply and I/O: configurable output and input $\times$ 4 (Line 0/1/3/4), supports single-end/differential
<b>Power supply</b>	12 VDC to 24 VDC, supports PoE
<b>Power consumption</b>	Typ. 5.7 W @12 VDC
<b>Mechanical</b>	
<b>Lens mount</b>	M42 *1.0, optical back focal length: 12 mm (0.5"), applicable to F-mount, C-mount and others via lens adapter
<b>Dimension</b>	62 mm $\times$ 62 mm $\times$ 40.5 mm (2.4" $\times$ 2.4" $\times$ 1.6")
<b>Weight</b>	Approx. 256 g (0.6 lb.)
<b>Ingress protection</b>	IP40 (under proper lens installation and wiring)
<b>Temperature</b>	Working temperature: -20 $^{\circ}\text{C}$ to 55 $^{\circ}\text{C}$ (-4 $^{\circ}\text{F}$ to 131 $^{\circ}\text{F}$ ) Storage temperature: -30 $^{\circ}\text{C}$ to 80 $^{\circ}\text{C}$ (-22 $^{\circ}\text{F}$ to 176 $^{\circ}\text{F}$ )
<b>Humidity</b>	5% to 90% RH, non-condensing
<b>General</b>	
<b>Client software</b>	MVS or the third-party software meeting with GigE Vision protocol
<b>Operating system</b>	32/64-bit Windows XP/7/10, 32/64-bit Linux, and 64-bit MacOS
<b>Compatibility</b>	GigE Vision V2.0, GenICam
<b>Certification</b>	CE, FCC, RoHS, KC

## HIKROBOT

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