

# MV-CL042-91GC

## 4096 P CMOS GigE Line Scan Camera



GEN*i*CAM

GigE  
VISION

### Introduction

MV-CL042-91GC camera adopts CMOS sensor to provide high-quality image and integrates multiple ISP image algorithms and functions. It supports several external trigger modes such as line trigger, frame trigger, and line + frame trigger, etc. It uses GigE interface to transmit images in real time and its max. line rate can reach 80 kHz in the high-bandwidth mode.

### Key Feature

- Supports image high-bandwidth mode, TDI, trigger-width exposure, etc.
- Supports manual adjustment for Gamma correction, PRNU correction, LUT, black level offset, etc.
- Adopts bi-directional I/O connection, flexible configuration for Input/Output.
- Compact design and flexible installation.
- Compatible with GigE Vision V2.0 and GenICam standard.

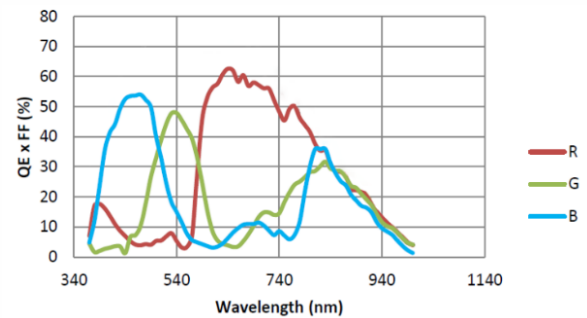
### Available Model

MV-CL042-91GC

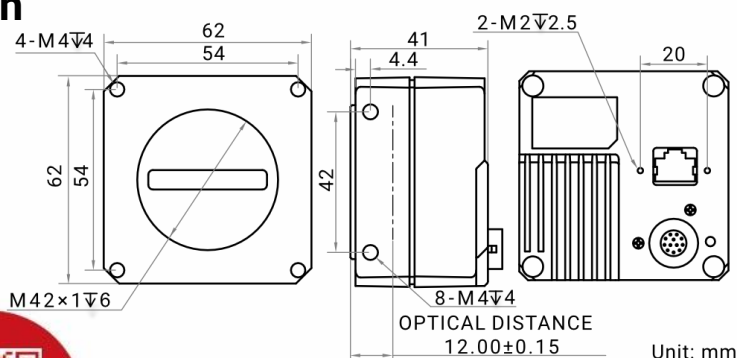
### Applicable Industry

Printing, textiles, railway, logistics, metallurgy, food, pharmaceutical manufacturing, material sorting, etc.

### Sensor Quantum Efficiency



### Dimension



# Specification

<b>Model</b>	<b>MV-CL042-91GC</b>
<b>Camera</b>	
<b>Sensor type</b>	CMOS
<b>Pixel size</b>	7 $\mu$ m
<b>Resolution</b>	4096 $\times$ 2
<b>Image mode</b>	Not support
<b>Max. line rate*</b>	Standard mode: 28 kHz @Bayer RG 8/Bayer RBGG 8/Mono 8, 14 kHz @Bayer RG 10/12/Mono 10/12, 9 kHz @RGB 8/BGR 8 High-bandwidth mode: 80 kHz @Bayer RBGG 8, 40 kHz @Bayer RG 8/RGB 8
<b>Dynamic range</b>	65.6 dB
<b>SNR</b>	40 dB
<b>Gain</b>	Supports 1.0 $\times$ , 1.4 $\times$ , 1.6 $\times$ , 2.4 $\times$ , 3.2 $\times$
<b>Exposure time</b>	5 $\mu$ 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 8/10/12, Bayer RG 8/10/12, RGB 8, BGR 8, Bayer RBGG 8
<b>Binning</b>	Supports 1 $\times$ 1, 1 $\times$ 2, 1 $\times$ 4, 2 $\times$ 1, 2 $\times$ 2, 2 $\times$ 4, 4 $\times$ 1, 4 $\times$ 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 Hirose connector provides power 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. 6.6 W@12 VDC
<b>Mechanical</b>	
<b>Lens mount</b>	M42 *1.0, optical back focal length: 12 mm (0.5"), applicable to F/C-mount and others via adapter
<b>Dimension</b>	62 mm $\times$ 62 mm $\times$ 41 mm (2.4" $\times$ 2.4" $\times$ 1.6")
<b>Weight</b>	Approx. 280 g (0.6 lb.)
<b>Ingress protection</b>	IP40 (under proper lens installation and wiring)
<b>Temperature</b>	Working temperature: -20 $^{\circ}$ C to 55 $^{\circ}$ C (-4 $^{\circ}$ F to 131 $^{\circ}$ F) Storage temperature: -30 $^{\circ}$ C to 80 $^{\circ}$ C (-22 $^{\circ}$ F to 176 $^{\circ}$ 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, 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.

## HIKROBOT

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