

# MV-CL042-91CC

## 4096 P Camera Link Line Scan Camera



GEN*i*CAM



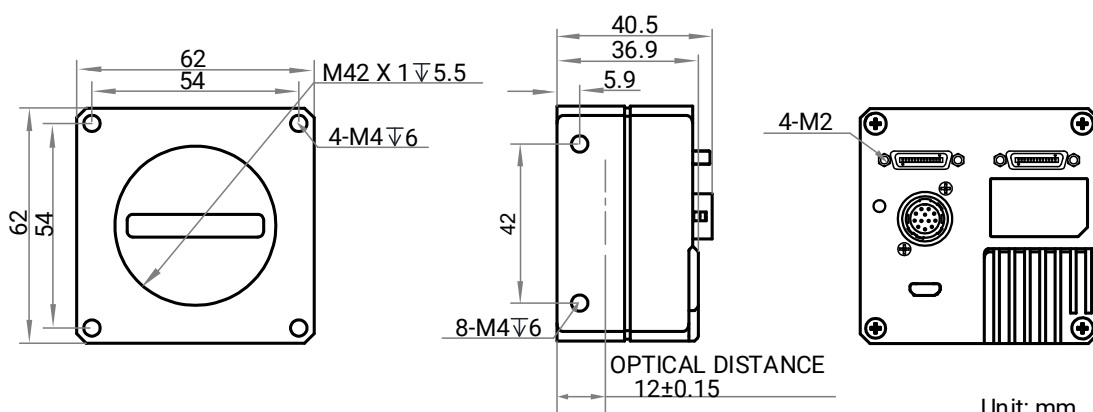
### Introduction

MV-CL042-91CC camera adopts CMOS sensor to provide high quality images and uses Camera Link interface to transmit images in real time. It adopts multiple ISP technologies, and supports external trigger modes like line trigger, frame trigger, and trigger-width exposure.

### Key Feature

- Supports multiple exposure and image acquisition methods with max. line rate of 100 kHz.
- Applies multiple ISP technologies and supports manual adjustment for Gamma correction, PRNUC correction, LUT, black level, etc.
- Supports bi-directional I/O wiring for flexible input/output settings.
- Compact design and flexible installation.
- Compatible with Camera Link Protocol and GenICam Standard.

### Dimension



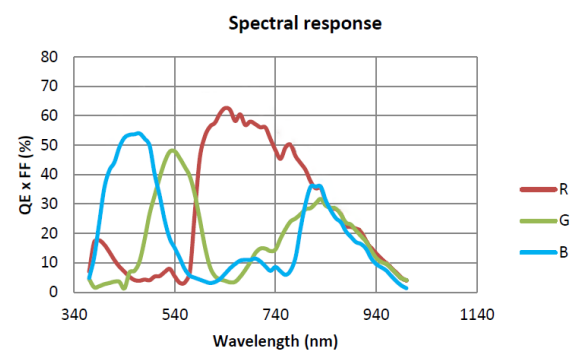
### Available Model

MV-CL042-91CC

### Applicable Industry

Printing, metallurgy, food, logistics, transportation, material sorting, pharmaceutical manufacturing, etc.

### Sensor Quantum Efficiency



<b>Model</b>	<b>MV-CL042-91CC</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>	Supports 1-line
<b>Max. line rate</b>	40 kHz @ Mono 8 (Base), 50 kHz @ RGB 8 (80-bit), 100 kHz @ Bayer RGBG 8 (Full)
<b>Configuration mode</b>	Mono 8: Base RGB 8: Base, Medium, 80-bit Bayer RGBG 8: Base, Medium, Full
<b>Tap geometry</b>	Mono 8: 1 $\times$ ; RGB 8: 1 $\times$ , 1 $\times$ 2, 1 $\times$ 10; Bayer RGBG 8: 1 $\times$ 2, 1 $\times$ 4, 1 $\times$ 8
<b>Tap number</b>	Mono 8: 2 Taps; RGB 8: 1/2/10 Taps; Bayer RGBG 8: 2/4/8 Taps
<b>Pixel clock</b>	40 MHz, 60 MHz, 70 MHz, 85 MHz
<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; supports fixed time exposure, trigger-width exposure
<b>Mono/color</b>	Color
<b>Pixel format</b>	Mono 8, RGB 8, Bayer RGBG 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 features</b>	
<b>Data interface</b>	Camera Link (SDR connector); USB interface for updating firmware
<b>Digital I/O</b>	12-pin P10 connector provides power and I/O: configurable input/output $\times$ 4 (Line 0/1/3/4) and support single-ended/differential. Camera Link provides I/O (CC1/CC2/CC3/CC4).
<b>Power supply</b>	12 VDC to 24 VDC
<b>Power consumption</b>	Typ. 6.1 W @ 12 VDC
<b>Mechanical</b>	
<b>Lens mount</b>	M42*1.0, flange back length 12 mm, applicable to F-mount, C-mount and lens of other types via lens adapter
<b>Dimension</b>	62 mm $\times$ 62 mm $\times$ 36.9 mm (2.4" $\times$ 2.4" $\times$ 1.5")
<b>Weight</b>	Approx. 238 g (0.5 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% RH to 95% RH (no condensation)
<b>General</b>	
<b>Client software</b>	MVS and frame grabber software meeting with Camera Link Protocol
<b>Operating system</b>	32/64-bit Windows 7/10, 64-bit Windows 11
<b>Compatibility</b>	Camera Link V2.1, GenICam
<b>Certification</b>	CE, RoHS, KC