

# MV-CL083-92GC

8192 P CMOS GigE Line Scan Camera



GEN<i>i</i>CAM

GIG<i>E</i>  
VISION

## Introduction

MV-CL083-92GC camera adopts 8192 × 3 line RGB true color CMOS sensor with pixel size of 7 μm × 7 μm, supports RGB true color imaging, and integrates multiple latest ISP image algorithms and functions, and supports external trigger modes like line trigger, frame trigger, and trigger-width exposure. It uses GigE interface to transmit images in real time, and supports high bandwidth function to increase max. line rate.

## Key Feature

- Supports high bandwidth image compression mode, trigger-width exposure, RGB true color imaging, etc.
- Rich ISP image algorithms and supports manual adjustment for Gamma correction, flat field correction, LUT, black level, etc.
- Adopts bi-directional I/O hardware design.
- Compact design and flexible installation.
- Compatible with GigE Vision V2.0, GenICam standard.

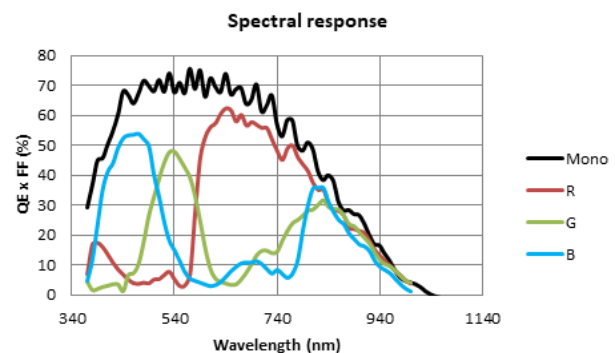
## Available Model

MV-CL083-92GC

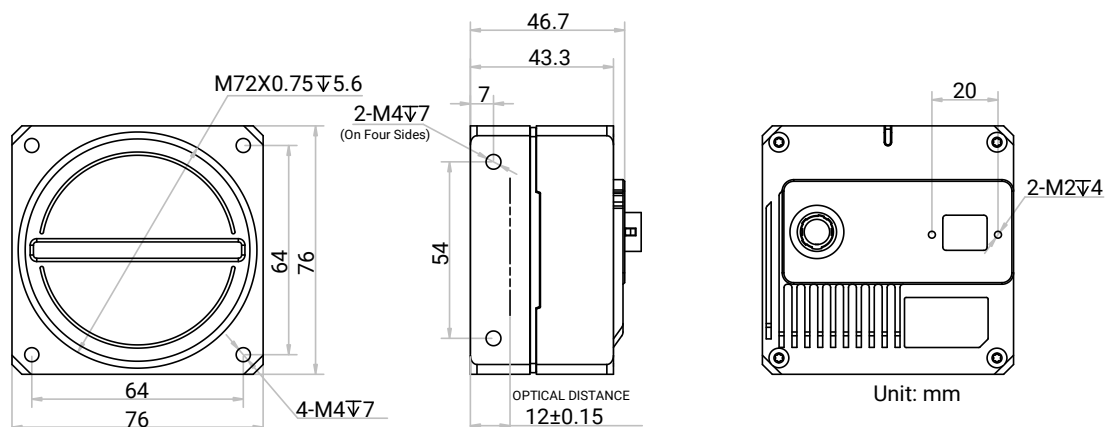
## Applicable Industry

New energy, screen detection, consumer electronics, PCB, food & pharmaceuticals, material sorting, etc.

## Sensor Quantum Efficiency



## Dimension



## Specification

<b>Model</b>	<b>MV-CL083-92GC</b>
<b>Performance</b>	
<b>Sensor type</b>	CMOS
<b>Pixel size</b>	7 $\mu\text{m}$ $\times$ 7 $\mu\text{m}$
<b>Resolution</b>	8192 $\times$ 3
<b>Image mode</b>	Supports 1-line
<b>Max. line rate</b>	Standard mode: 14.1 kHz @Bayer-RG-8/Mono-8, 7.7 kHz @Bayer-RG-10, 4.7 kHz @RGB-8/BGR-8 High-bandwidth mode: 33 kHz @Bayer-RG-/Mono 8, 23.2 kHz @Bayer-RG-10, 12.5 kHz @RGB-8/BGR-8
<b>Dynamic range</b>	63.4 dB
<b>SNR</b>	40.8 dB
<b>Gain</b>	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>	Bayer RG 8/10, RGB 8, BGR 8, Mono 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 P10 connector provides power and I/O: configurable input or output $\times$ 4 (Line 0/1/3/4) and supports single-ended/differential
<b>Power supply</b>	12 VDC to 24 VDC
<b>Power consumption</b>	Typ. 7.7 W@12 VDC
<b>Mechanical</b>	
<b>Lens mount</b>	M72 *0.75, flange focal length: 12 mm (0.5"), applicable to F/C-mount and others via adapter
<b>Dimension</b>	76 mm $\times$ 76 mm $\times$ 46.7 mm (3.0" $\times$ 3.0" $\times$ 1.8")
<b>Weight</b>	Approx. 400 g (0.9 lb.)
<b>Ingress protection</b>	IP40 (under proper lens installation and wiring)
<b>Temperature</b>	Working temperature: -20 $^{\circ}\text{C}$ to 50 $^{\circ}\text{C}$ (-4 $^{\circ}\text{F}$ to 122 $^{\circ}\text{F}$ ) 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, RoHS, KC