MV-CL042-91GC

4096 P CMOS GigE Line Scan Camera

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.

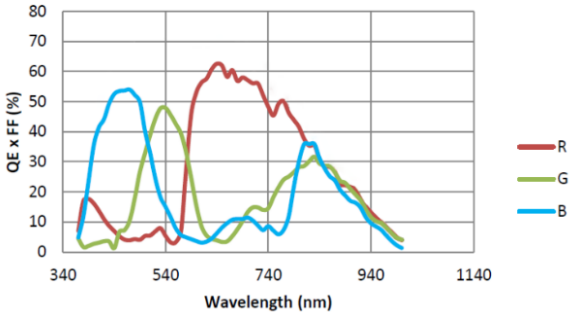
Available Model

MV-CL042-91GC

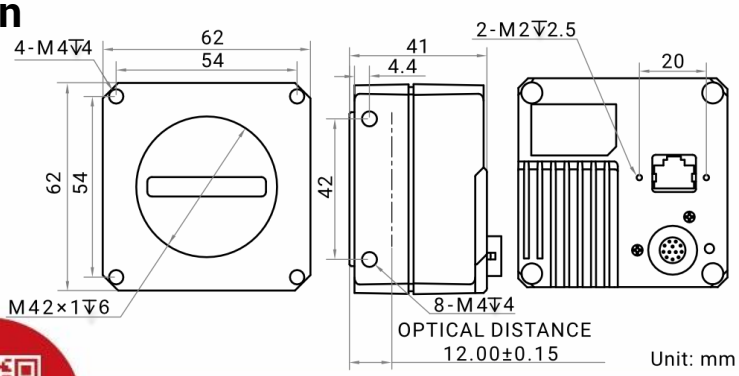
Applicable Industry

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

Sensor Quantum Efficiency



Dimension



Unit: mm

Specification

Model	MV-CL042-91GC
Camera	
Sensor type	CMOS
Pixel size	7 μm
Resolution	4096 × 2
Image mode	Not support
Max. line rate*	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
Dynamic range	65.6 dB
SNR	40 dB
Gain	Supports 1.0 ×, 1.4 ×, 1.6 ×, 2.4 ×, 3.2 ×
Exposure time	5 μs to 10 ms
Exposure mode	Off/ Once/ Continuous exposure mode, and supports trigger-width exposure
Mono/color	Color
Pixel format	Mono 8/10/12, Bayer RG 8/10/12, RGB 8, BGR 8, Bayer RBGG 8
Binning	Supports 1 × 1, 1 × 2, 1 × 4, 2 × 1, 2 × 2, 2 × 4, 4 × 1, 4 × 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 Hirose connector provides power 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. 6.6 W@12 VDC
Mechanical	
Lens mount	M42 *1.0, optical back focal length: 12 mm (0.5"), applicable to F/C-mount and others via adapter
Dimension	62 mm × 62 mm × 41 mm (2.4" × 2.4" × 1.6")
Weight	Approx. 280 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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