

MV-CL022-91GMGC

2048 P CMOS GigE Line Scan Camera



GEN*i*CAM

GigE
VISION

Introduction

MV-CL022-91GMGC 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 max. line rate of mono camera can reach 100 kHz in the high-bandwidth mode, and that of color camera can reach 40 kHz.

Key Feature

- Supports image high-bandwidth, trigger-width exposure.
- 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.

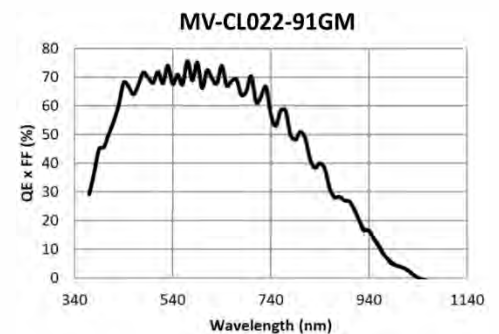
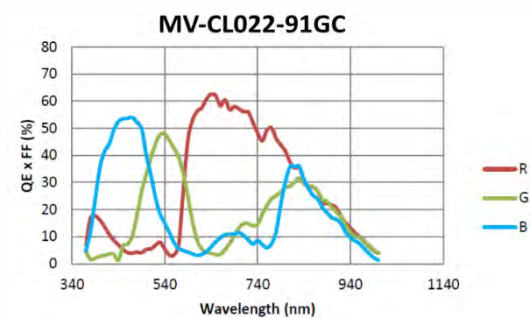
Available Model

MV-CL022-91GM
MV-CL022-91GC

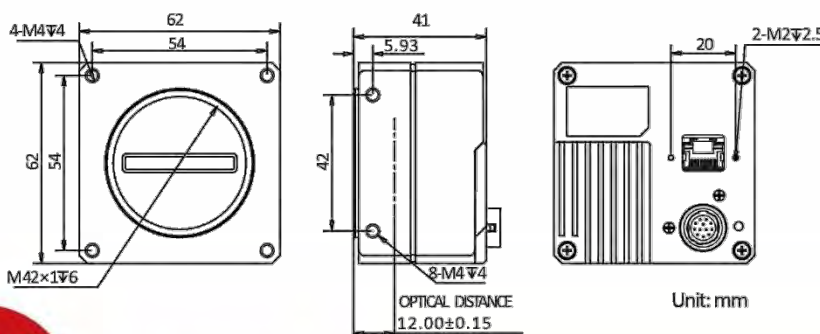
Applicable Industry

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

Sensor Quantum Efficiency



Dimension



Unit: mm



Specification

Model	MV-CL022-91GM	MV-CL022-91GC
Camera		
Sensor type	CMOS	
Pixel size	14 μm	
Resolution	2048 \times 1	2048 \times 2
Max. line rate	100 kHz (HB) 19 kHz (Non-HB)	40 kHz @RGB 8/BGR 8 (HB) 19 kHz (Non-HB)
Dynamic range	63.4 dB	
SNR	39.4 dB	
Gain	Supports 1.0 \times , 1.4 \times , 1.6 \times , 2.4 \times , 3.2 \times	
Exposure time	5 μs to 10 ms	
Exposure mode	Off/ Once/ Continuous exposure mode, and supports trigger-width exposure	
Mono/color	Mono	Color
Pixel format	Mono 8/10/12	Mono 8/10/12 Bayer RG 8/10/12 RGB 8, BGR 8
Binning	Supports 1 \times 1, 1 \times 2, 2 \times 1, 2 \times 2	
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 \times 4 (Line 0/1/3/4), supports single-end/differential	
Power supply	12 VDC to 24 VDC, supports PoE	
Power consumption	Typ. 5 W@12 VDC	Typ. 7.4 W@12 VDC
Mechanical		
Lens mount	M42 *1.0, optical back focal length: 12 mm (0.5"), applicable to F-mount, C-mount and others via lens adapter	
Dimension	62 mm \times 62 mm \times 41 mm (2.4" \times 2.4" \times 1.6")	
Weight	Approx. 280 g (9.9 lb.)	
Ingress protection	IP40 (under proper lens installation and wiring)	
Temperature	Working temperature: -20 $^{\circ}\text{C}$ to 55 $^{\circ}\text{C}$ (32 $^{\circ}\text{F}$ to 131 $^{\circ}\text{F}$) Storage temperature: -30 $^{\circ}\text{C}$ to 80 $^{\circ}\text{C}$ (-22 $^{\circ}\text{F}$ to 176 $^{\circ}\text{F}$)	
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, FCC, RoHS, KC	

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