

MV-CL042-90GM/GC

4096 P CMOS GigE Line Scan Camera



GEN*i*CAM

GigE
VISION

Introduction

MV-CL042-90GM/GC camera adopts Gpixel GL0402 sensor to provide high-quality image, and uses GigE interface to transmit images in real time. It adopts multiple ISP image algorithms, and supports single-frame trigger, multiple-frame trigger, trigger-width exposure, etc.

Key Feature

- Supports auto and manual adjustment for exposure time, and manual adjustment for Gamma correction, LUT, etc.
- Adopts GigE interface and max. transmission distance of 100 meters without relay.
- Supports high bandwidth image compression mode.
- Compact design and flexible installation.
- Compatible with GigE Vision Protocol V2.0 and GenICam Standard.

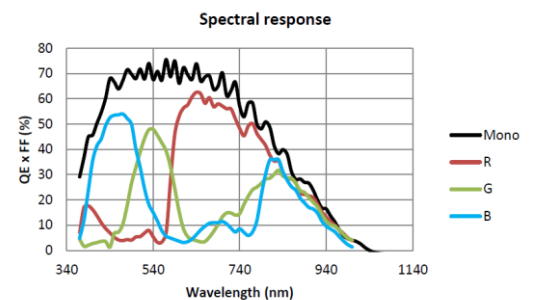
Available Model

Mono camera: MV-CL042-90GM
Color camera: MV-CL042-90GC

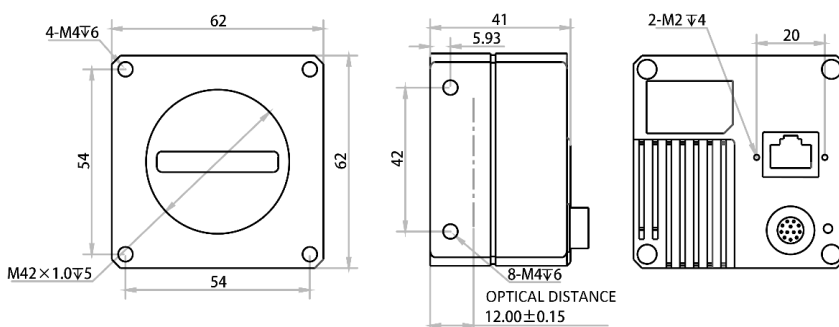
Applicable Industry

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

Sensor Quantum Efficiency



Dimension



Specification

Model	MV-CL042-90GM	MV-CL042-90GC
Camera		
Sensor type	CMOS	
Pixel size	7 μ m	
Resolution	4096 \times 2	
Image mode	Supports 1-line/2-TDI	Standard mode
Max. line rate	29 kHz @4096 \times 2 mono 8	9 kHz @4096 \times 2 RGB 8
	80 kHz @4096 \times 2 mono 8 (high bandwidth function enabled)	29 kHz @4096 \times 2 RGB 8 (high bandwidth function enabled)
Pixel format	Mono 8/10/12, mono 10/12 Packed	Mono 8/10/12, Bayer RG 8/10/10p/12/12p, YUV422Packed, YUV422_YUYV_Packed, RGB 8, BGR 8
Dynamic range	65.6 dB	
SNR	40 dB	
Gain	Supports \times 1.0/ \times 1.4/ \times 1.6/ \times 2.4/ \times 3.2	
Exposure time	5 μ s to 10 ms	
Exposure mode	Off/ Once/ Continuous, supports timed and trigger-width exposure	
Mono/color	Mono	Color
Binning	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	
Reverse image	Supports horizontal reverse image output	
Trigger mode	External trigger, internal trigger	
External trigger mode	Line trigger, frame trigger, line + frame trigger	
Image buffer	512 MB	
Electrical feature		
Data interface	Gigabit Ethernet	
Digital I/O	12-pin Hirose connector provides power and I/O, including configurable differential input or single input \times 2 (Line 0/3), bi-directional I/O \times 1 (Line 2), and differential output \times 2 (Line 1/4).	
Power supply	12 VDC to 24 VDC	
Power consumption	< 6.3 W@12 VDC	< 7.0 W@12 VDC
Mechanical		
Lens mount	M42 *1.0, back focal length: 12 mm (0.5"), applicable to F-mount, C-mount and lens of other types via lens adapter	
Dimension	62 mm \times 62 mm \times 41 mm (2.4" \times 2.4" \times 1.6")	
Weight	Approx. 280 g (0.62 lb.)	
Ingress protection	IP40 (under proper lens installation and wiring)	
Temperature	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)	
Humidity	5% to 95% 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	