

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.

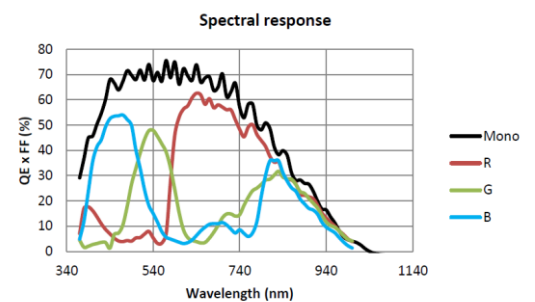
Available Model

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

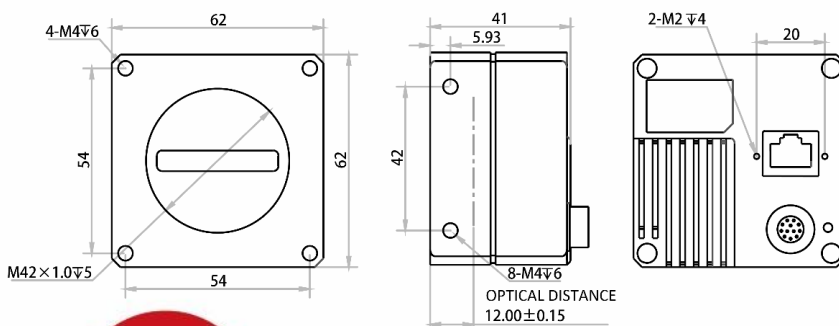
Applicable Industry

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 μm	
Resolution	4096 × 2	
Image mode	Supports 1-line/2-TDI	Standard mode
Max. line rate	29 kHz @4096 × 2 mono 8	9 kHz @4096 × 2 RGB 8
	80 kHz @4096 × 2 mono 8 (high bandwidth function enabled)	29 kHz @4096 × 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 × 1.0/× 1.4/× 1.6/× 2.4/× 3.2	
Exposure time	5 μs to 10 ms	
Exposure mode	Off/ Once/ Continuous, supports timed and trigger-width exposure	
Mono/color	Mono	Color
Binning	Supports 1 × 1, 1 × 2, 1 × 4, 2 × 1, 2 × 2, 2 × 4, 4 × 1, 4 × 2, 4 × 4	
External trigger mode	Line trigger, frame trigger, etc.	
Synchronization	Via external trigger, internal trigger	
Reverse image	Supports horizontal reverse image output	
Image buffer	512 MB	
Electrical features		
Data interface	Gigabit Ethernet	
Digital I/O	12-pin Hirose connector provides power and I/O, including configurable differential input or single input × 2 (Line 0/3), bi-directional I/O × 1 (Line 2), and differential output × 2 (Line 1/4).	
Power supply	12 VDC to 24 VDC	
Power consumption	< 6.3 W@12 VDC	< 7.0 W@12 VDC
Structure		
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 × 62 mm × 41 mm (2.4" × 2.4" × 1.6")	
Weight	Approx. 280 g (0.62 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 95% RH, non-condensing	
General		
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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