

# MV-CL021-40GM

2048 P CMOS GigE Line Scan Camera



**GEN*i*CAM**

**GIG*E***  
VISION

## Introduction

MV-CL021-40GM camera supports line trigger mode, frame trigger mode, line + frame trigger mode, etc. It uses GigE interface to transmit non-compressed images in real time with max. line rate reaching 56 kHz.

## Key Feature

- Adopts GigE interface and max. transmission distance of 100 meters without relay.
- Supports gain and exposure control, LUT, Gamma correction, etc.
- Compact design for flexible installation.
- Compatible with GigE Vision Protocol V2.0, GenICam Standard, and third-party software based on the protocol and standard.

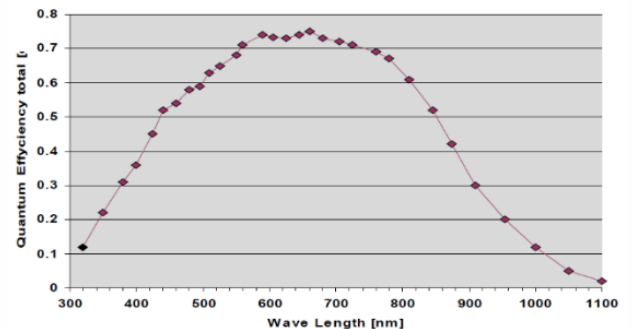
## Available Model

MV-CL021-40GM

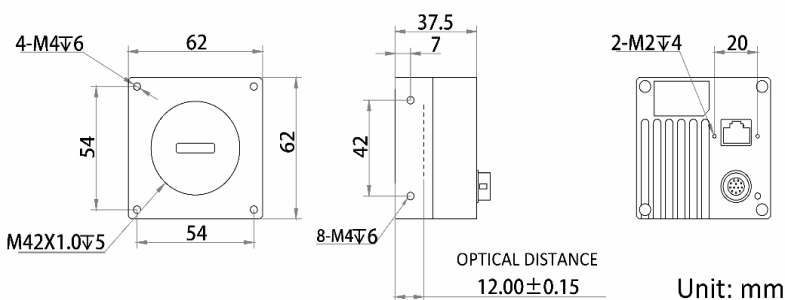
## Applicable Industry

Printing, texture, railway, logistics, metallurgy, food, pharmaceuticals, material sorting, etc.

## Sensor Quantum Efficiency



## Dimension



## Specification

<b>Model</b>	<b>MV-CL021-40GM</b>
<b>Camera</b>	
<b>Sensor type</b>	CMOS
<b>Pixel size</b>	7 $\mu\text{m}$
<b>Resolution</b>	2048 $\times$ 1
<b>Max. line rate</b>	56 kHz @Mono 8, 28 kHz @Mono 10/12, 37 kHz @Mono 10p/12p
<b>Dynamic range</b>	60 dB
<b>SNR</b>	40 dB
<b>Gain</b>	0 dB to 12 dB
<b>Exposure time</b>	2 $\mu\text{s}$ to 10 ms
<b>Exposure mode</b>	Off/Once/Continuous exposure mode, and supports trigger-width exposure
<b>Mono/color</b>	Mono
<b>Pixel format</b>	Mono 8/10/10p/12/12p
<b>Binning</b>	Support 1/2/3/4
<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 Hirose connector provides power and I/O, including differential input $\times$ 2 (Line 0, Line 3), differential output $\times$ 2 (Line 1, Line 4), and bi-directional non-isolated I/O $\times$ 1 (Line 2)
<b>Power supply</b>	12 VDC, supports PoE
<b>Power consumption</b>	Typ. 4 W @12 VDC
<b>Mechanical</b>	
<b>Lens mount</b>	M42*1, optical back focal length: 12 mm (0.5"), applicable to F-mount, C-mount and lens of other types via lens adapter
<b>Dimension</b>	62 mm $\times$ 62 mm $\times$ 37.5 mm (2.4" $\times$ 2.4" $\times$ 1.5")
<b>Weight</b>	Approx. 170 g (0.4 lb.)
<b>Ingress protection</b>	IP40 (under proper lens installation and wiring)
<b>Temperature</b>	Working temperature: 0 $^{\circ}\text{C}$ to 50 $^{\circ}\text{C}$ (32 $^{\circ}\text{F}$ to 122 $^{\circ}\text{F}$ ) Storage temperature: -30 $^{\circ}\text{C}$ to 70 $^{\circ}\text{C}$ (-22 $^{\circ}\text{F}$ to 158 $^{\circ}\text{F}$ )
<b>Humidity</b>	20% to 80% RH, non-condensing
<b>General</b>	
<b>Client software</b>	MVS or 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, FCC, RoHS, KC

Distribution Partner:



# SCORPION VISION