

# MV-CL021-40GM

2K 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 51 kHz.

## Key Feature

- Adopts GigE interface and max. transmission distance of 100 meters without relay.
- 128 MB on-board buffer, for image burst transmitting and retransmitting.
- Supports auto exposure control, LUT, Gamma correction, etc.
- Compatible with GigE Vision Protocol V2.0, GenICam Standard, and third-party software based on these protocol and standard.

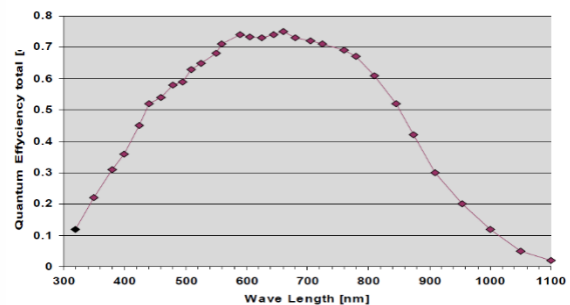
## Available Model

Mono camera: MV-CL021-40GM

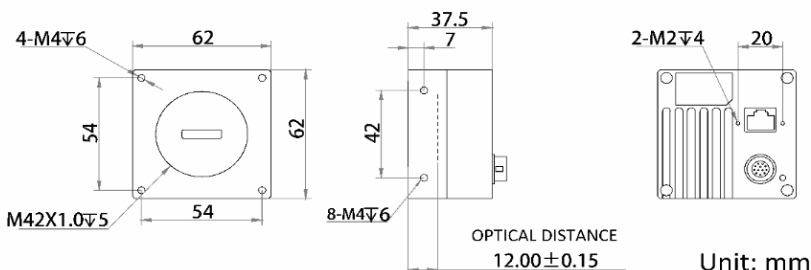
## Applicable Industry

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 μm  |
| <b>Resolution</b>            | 2048 × 1  |
| <b>Max. line rate</b>        | 51 kHz@2048 x 1   |
| <b>Pixel format</b>          | Mono 8/10/10p/12/12p  |
| <b>Dynamic range</b>         | 60 dB   |
| <b>SNR</b>                   | 40 dB   |
| <b>Gain</b>                  | 0 dB to 12 dB   |
| <b>Exposure time</b>         | 2 μs to 10 ms   |
| <b>Exposure mode</b>         | Off/Once/Continuous exposure mode   |
| <b>Mono/color</b>            | Mono  |
| <b>Reverse image</b>         | Supports horizontal reverse image output  |
| <b>Binning</b>               | Support 1/2/3/4   |
| <b>External trigger mode</b> | Line trigger, frame trigger   |
| <b>Synchronization mode</b>  | External trigger, internal trigger  |
| <b>Image buffer</b>          | 128 MB  |
| <b>Electrical features</b>   |   |
| <b>Data interface</b>        | Gigabit Ethernet  |
| <b>Digital I/O</b>           | 12-pin Hirose connector provides power and I/O, including differential input × 2 (Line 0, Line 3), differential output × 2 (Line 1, Line 4), and bi-directional non-isolated I/O × 1 (Line 2) |
| <b>Power supply</b>          | 12 VDC, supports PoE  |
| <b>Power consumption</b>     | Typ. 4 W @12 VDC  |
| <b>Structure</b>             |   |
| <b>Lens mount</b>            | M42 × 1.0, back focal distance 12 mm, F mount or C mount lens supported with lens adapter   |
| <b>Dimension</b>             | 62 mm × 62 mm × 37.5 mm (2.4" × 2.4" × 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 °C to 50 °C (32 °F to 122 °F)<br>Storage temperature: -30 °C to 70 °C (-22 °F to 158 °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   |

**HIKROBOT**

Hangzhou Hikrobot Technology Co., Ltd.  
No.399 Danfeng Road, Binjiang District, Hangzhou 310051, China.  
en.hikrobotics.com

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