MV-CL021-40GM

2048 P CMOS GigE Line Scan Camera

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.

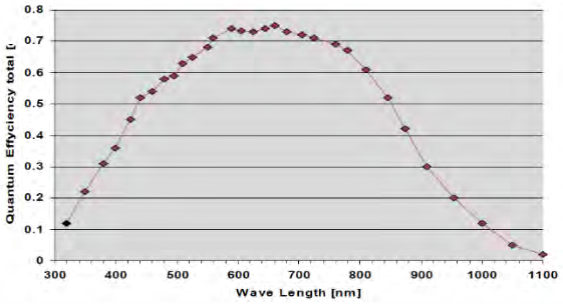
Available Model

Mono camera: MV-CL021-40GM

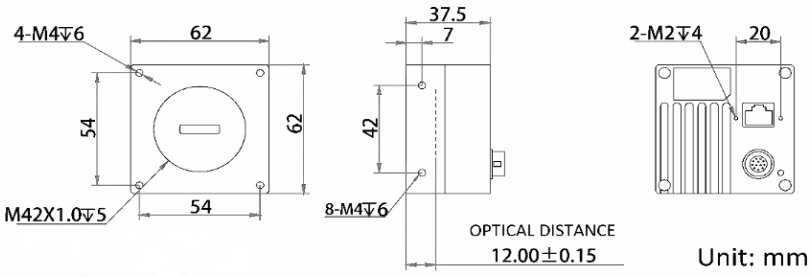
Applicable Industry

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

Sensor Quantum Efficiency



Dimension



Specification

Model	MV-CL021-40GM
Camera	
Sensor type	CMOS
Pixel size	7 μm
Resolution	2048 × 1
Max. line rate	51 kHz@2048 x 1
Pixel format	Mono 8/10/10p/12/12p
Dynamic range	60 dB
SNR	40 dB
Gain	0 dB to 12 dB
Exposure time	2 μs to 10 ms
Exposure mode	Off/Once/Continuous exposure mode
Mono/color	Mono
Reverse image	Supports horizontal reverse image output
Binning	Support 1/2/3/4
Trigger mode	External trigger, internal trigger
External trigger mode	Line trigger, frame trigger, line + frame trigger
Image buffer	128 MB
Electrical feature	
Data interface	Gigabit Ethernet
Digital I/O	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 x 1 (Line 2)
Power supply	12 VDC, supports PoE
Power consumption	Typ. 4 W @12 VDC
Mechanical	
Lens mount	M42 × 1.0, back focal distance 12 mm, F mount or C mount lens supported with lens adapter
Dimension	62 mm × 62 mm × 37.5 mm (2.4" × 2.4" × 1.5")
Weight	Approx. 170 g (0.4 lb.)
Ingress protection	IP40 (under proper lens installation and wiring)
Temperature	Working temperature: 0 °C to 50 °C (32 °F to 122 °F) Storage temperature: -30 °C to 70 °C (-22 °F to 158 °F)
Humidity	20% to 80% RH, non-condensing
General	
Client software	MVS or 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

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

MaxxVision®
Sigmaringer Str. 121
70567 Stuttgart
Tel.: 0711 997 996 3
www.maxxvision.com

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