HC-CL021-40GM

2048 P CMOS GigE Line Scan Camera

GEN‹i›CAM

GigE VISION®

Introduction

HC-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.
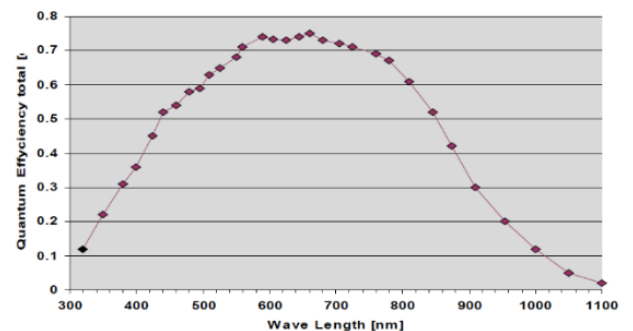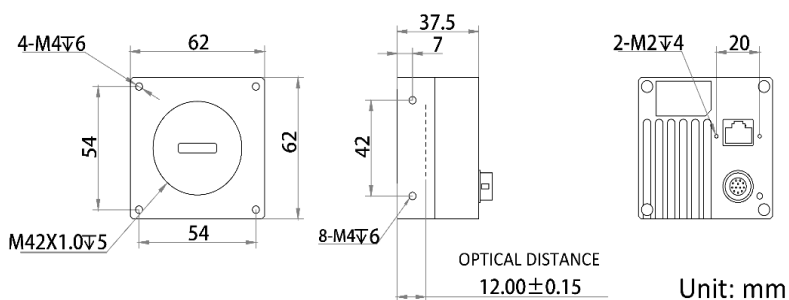
Available Model

HC-CL021-40GM

Applicable Industry

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

Sensor Quantum Efficiency

Dimension

Unit: mm

Specification

Model	HC-CL021-40GM
Camera	
Sensor type	CMOS
Pixel size	7 μm
Resolution	2048 × 1
Max. line rate	56 kHz @Mono 8, 28 kHz @Mono 10/12, 37 kHz @Mono 10p/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, and supports trigger-width exposure
Mono/color	Mono
Pixel format	Mono 8/10/10p/12/12p
Binning	Support 1/2/3/4
Reverse image	Supports horizontal reverse image output
Trigger mode	External trigger, internal trigger
External trigger mode	Line trigger, frame trigger, line + frame trigger
Electrical feature	
Data interface	Gigabit Ethernet, compatible with Fast 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 × 1 (Line 2)
Power supply	12 VDC, supports PoE
Power consumption	Typ. 4 W @12 VDC
Mechanical	
Lens mount	M42*1, optical 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 × 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, GenlCam
Certification	CE, FCC, RoHS, KC