HC-CA050-12GC

5 MP 2/3" CMOS GigE Area Scan Camera

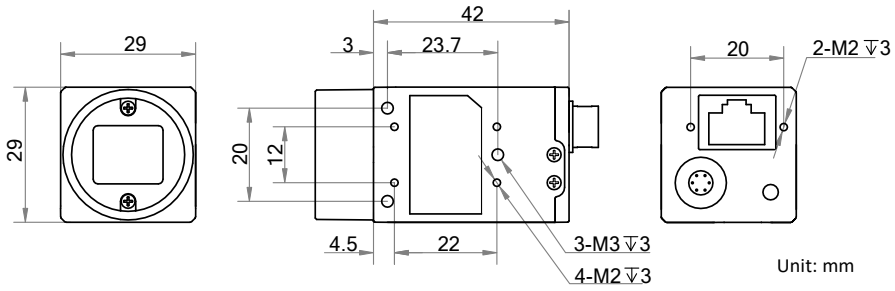
Introduction

HC-CA050-12GC camera adopts Sony® IMX264 sensor to provide high-quality image. It uses GigE interface to transmit non-compressed images in real time with max. frame rate reaching 24.1 fps.

Key Feature

- Adopts GigE interface and max. transmission distance of 100 meters without relay.
- Supports auto and manual adjustment for exposure control, LUT, Gamma correction, etc.
- Supports hardware trigger, software trigger, free run, etc.
- Compatible with GigE Vision Protocol V2.0, GenICam Standard, and third-party software based on these protocol and standard.

Dimension



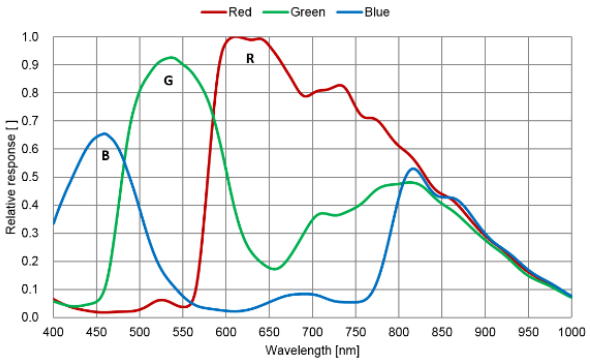
Available Model

HC-CA050-12GC

Applicable Industry

Electronic semiconductor, factory automation, food and beverage, medical packaging, etc.

Sensor Quantum Efficiency



Specification

Model	HC-CA050-12GC
Camera	
Sensor type	CMOS, global shutter
Sensor model	Sony® IMX264
Pixel size	3.45 μm × 3.45 μm
Sensor size	2/3"
Resolution	2448 × 2048
Max. frame rate	24.1 fps@ 2448 × 2048
Dynamic range	72 dB
SNR	40.2 dB
Gain	0 dB to 17 dB
Exposure time	UltraShort exposure mode: 1 μs to 14 μs
	Normal exposure mode: 15 μs to 10 sec
Exposure mode	Off/Once/Continuous exposure mode
Mono/color	Color
Pixel format	Mono 8/10/12, Bayer RG 8/10/10p/12/12p, YUV422Packed, YUV422_YUYV_Packed, RGB 8, BGR 8
Binning	Supports 1 × 1, 1 × 2, 2 × 1, 1 × 4, 4 × 1, 2 × 2, 2 × 4, 4 × 2, 4 × 4
Decimation	Supports 1 × 1, 2 × 2
Reverse image	Supports horizontal and vertical reverse image output
Electrical feature	
Data interface	Gigabit Ethernet, compatible with Fast Ethernet
Digital I/O	6-pin Hirose connector provides power and I/O, including opto-isolated input × 1 (Line 0), opto-isolated output × 1 (Line 1), bi-directional non-isolated I/O × 1 (Line 2).
Power supply	9 VDC to 24 VDC, supports PoE
Power consumption	Typ. 3.2 W@12 VDC
Mechanical	
Lens mount	C-Mount
Dimension	29 mm × 29 mm × 42 mm (1.1" × 1.1" × 1.7")
Weight	Approx. 88 g (0.19 lb)
Ingress protection	IP30 (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