HIKROBOT

MV-CH210-90YC V2

21 MP CoaXPress Area Scan Camera

MV-CH210-90YC V2 camera adopts Gpixel Gsprint4521 sensor to provide high-quality images. It uses CXP-12 interface to transmit non-compressed images in real time, and its max. frame rate can reach 229 fps.



GEN<i>CAM

Key Features

- Resolution of 5120 × 4096, and pixel size of 4.5 μm × 4.5 μm.
- Adopts global shutter CMOS sensor to provide high dynamic range and SNR, and high-quality images.
- Low power consumption without fans, ensuring stable high-speed imaging.
- Adopts CXP-12 interface to transmit data.
- Compatible with CoaXPress Protocol and GenICam Standard.

Typical Application

- Electronic semiconductor
- PCB AOI
- 3D application
- Motion capture

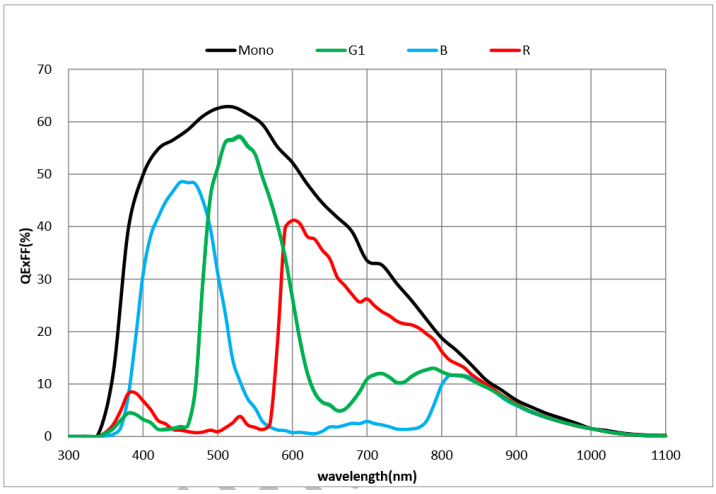
Specification

Model	MV-CH210-90YC V2
Performance	
Sensor type	CMOS, global shutter
Sensor model	Gpixel Gsprint4521
Pixel size	4.5 μm × 4.5 μm
Sensor size	23.04 mm × 18.43 mm
Resolution	5120 × 4096
Max. frame rate	229 fps @ 5120 × 4096 Bayer GB 8
Dynamic range	65 dB
SNR	45 dB
Gain	1.0 ×, 2.0 ×, 4.0 ×
Exposure time	1 μs to 10 sec
Exposure mode	Off/Once/Continuous exposure mode, supports TriggerWidth
Mono/color	Color
Pixel format	Bayer GB 8/10/12
Binning	Supports 1 × 1, 1 × 2, 1 × 4, 2 × 1, 2 × 2, 2 × 4, 4 × 1, 4 × 2, 4 × 4
Decimation	Supports 1 × 1, 1 × 2, 1 × 4, 2 × 1, 2 × 2, 2 × 4, 4 × 1, 4 × 2, 4 × 4
Reverse image	Supports horizontal and vertical reverse image output
Electrical feature	
Data interface	CoaXPress with Micro-BNC interface
Digital I/O	12-pin P10 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), and RS-232 × 1.
Power supply	12 VDC to 24 VDC, CXP-0 and CXP-1 connectors support PoCXP
Power consumption	Typ. 17.5 W @ 12 VDC
Mechanical	
Lens mount	M58*0.75
Dimension	80 mm × 80 mm × 92.5 mm (3.1" × 3.1" × 3.6")
Weight	Approx. 700 g (1.5 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 80 °C (–22 °F to 176 °F)
Humidity	20% RH to 95% RH (no condensation)
General	
Client software	MVS or frame grabber software meeting with CoaXPress Protocol
Operating system	32/64-bit Windows 7/10, 64-bit Windows 11, and 32/64-bit Linux
Compatibility	CoaXPress, GenICam
Certification	CE, RoHS, KC

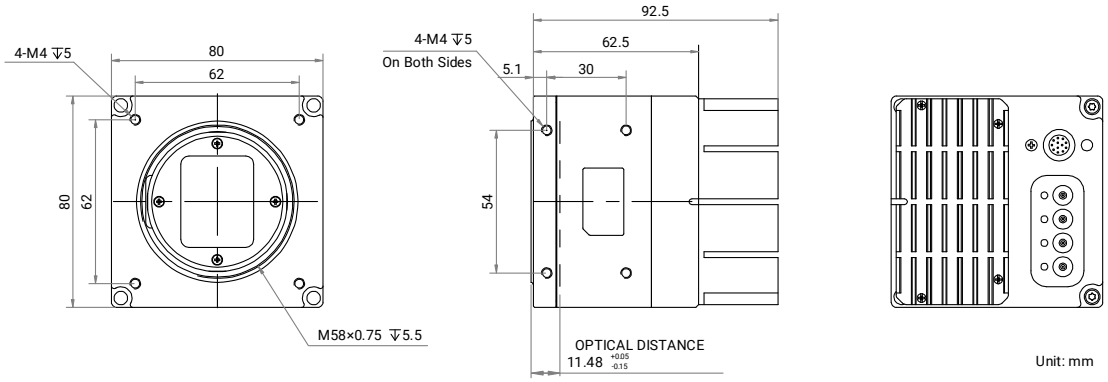
Available Model

- Color camera: MV-CH210-90YC-M58S-NN V2

Sensor Quantum Efficiency



Dimension



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