

MV-CH210-90YM

21 MP CMOS CoaXPress Area Scan Camera



GEN*i*CAM

CoaXPress®

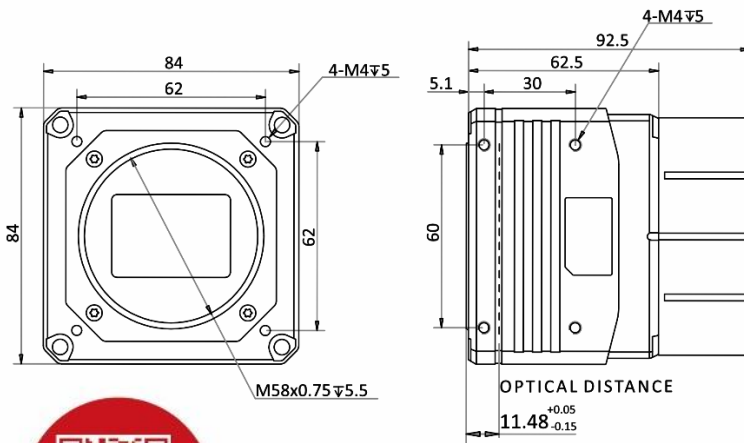
Introduction

MV-CH210-90YM camera adopts Gsprint 4521 sensor to provide high-quality image. It uses CXP-12 interface to transmit non-compressed images in real time, and its max. frame rate can reach 221.7 fps in full resolution.

Key Feature

- Resolution of 5120×4096 , and pixel size of $4.5 \mu\text{m} \times 4.5 \mu\text{m}$.
- Adopts global shutter CMOS to provide high dynamic range, SNR, and high-quality images.
- Supports sequencer polling function.
- Low power consumption without fans.
- Adopts CXP-12 interface to transmit data.
- Compatible with CoaXPress Protocol and GenICam Standard.

Dimension



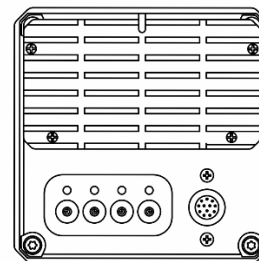
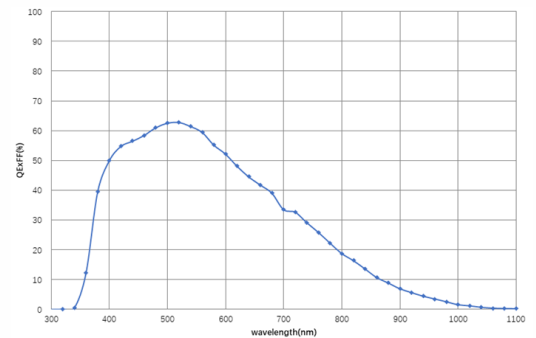
Available Model

MV-CH210-90YM-M58S-NN

Applicable Industry

Electronics, semiconductor, PCB AOI, 3D application, motion capture, etc.

Sensor Quantum Efficiency



Unit: mm



Specification

Model	MV-CH210-90YM
Camera	
Sensor type	CMOS, global shutter
Sensor model	Gpixel Gsprint 4521
Pixel size	4.5 μm \times 4.5 μm
Sensor size	23.04 mm \times 18.43 mm
Resolution	5120 \times 4096
Max. frame rate	221.7 fps @5120 \times 4096
Dynamic range	65 dB
SNR	43 dB
Gain	Supports 1.0 \times , 2.0 \times , 4.0 \times
Exposure time	9 μs to 10 sec
Exposure mode	Off/Once/Continuous exposure mode
Mono/color	Mono
Pixel format	Mono 8/10/12
Binning	Supports 1 \times 1, 1 \times 2, 1 \times 4, 2 \times 1, 2 \times 2, 2 \times 4, 4 \times 1, 4 \times 2, 4 \times 4
Decimation	Supports 1 \times 1, 1 \times 2, 1 \times 4, 2 \times 1, 2 \times 2, 2 \times 4, 4 \times 1, 4 \times 2, 4 \times 4
Reverse image	Supports horizontal and vertical reverse image output
Electrical features	
Data interface	CoaXPress with Micro-BNC interface
Digital I/O	12-pin Hirose connector provides power and I/O, including opto-isolated input \times 1 (Line 0), opto-isolated output \times 1 (Line 1), bi-directional non-isolated I/O \times 1 (Line 2), and RS-232 \times 1.
Power supply	24 VDC, CXP-0 and CXP-1 connectors support PoCXP
Power consumption	Typ. 19.8 W@24 VDC
Mechanical	
Lens mount	M58*0.75, optical back focal length 11.48 mm (0.5")
Dimension	84 mm \times 84 mm \times 62.5 mm (3.3" \times 3.3" \times 2.5")
Weight	Approx. 650 g (1.4 lb.)
Ingress protection	IP40 (under proper lens installation and wiring)
Temperature	Working temperature: 0 $^{\circ}\text{C}$ to 50 $^{\circ}\text{C}$ (32 $^{\circ}\text{F}$ to 122 $^{\circ}\text{F}$) Storage temperature: -30 $^{\circ}\text{C}$ to 70 $^{\circ}\text{C}$ (-22 $^{\circ}\text{F}$ to 158 $^{\circ}\text{F}$)
Humidity	20% to 95% RH, non-condensing
General	
Client software	MVS or frame grabber software meeting with CoaXPress Protocol
Operating system	32/64-bit Windows 7/10
Compatibility	CoaXPress, GenICam
Certification	CE, FCC, RoHS, KC

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