MV-CH210-90YM

21 MP CMOS CoaXPress Area Scan Camera

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 μm × 4.5 μm.
- 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.

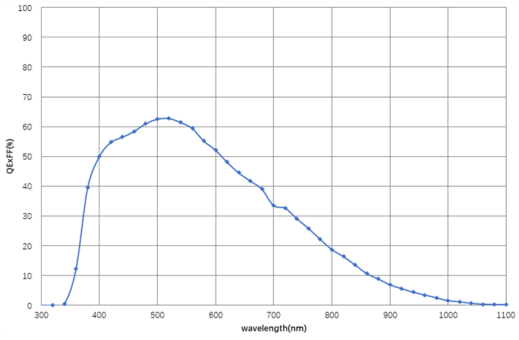
Available Model

MV-CH210-90YM-M58S-NN

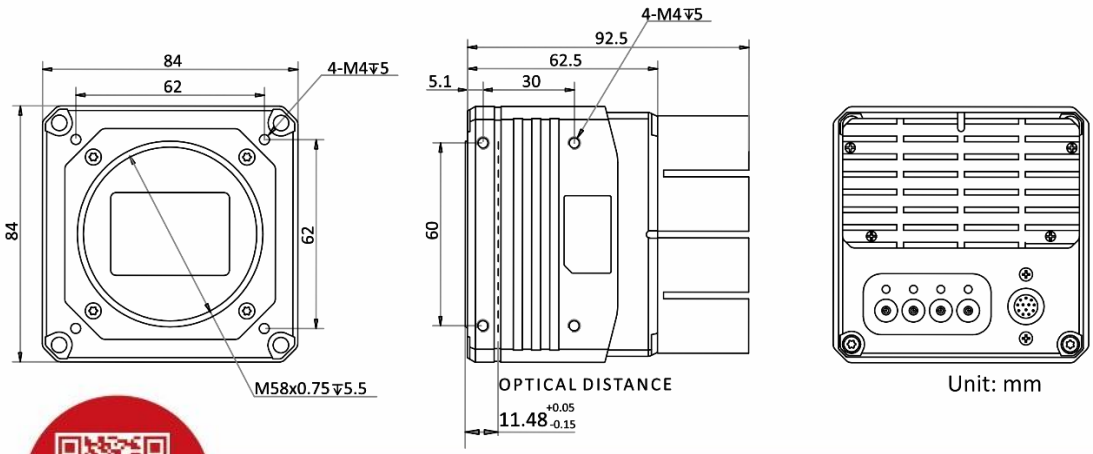
Applicable Industry

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

Sensor Quantum Efficiency



Dimension



Unit: mm

Specification

Model	MV-CH210-90YM
Camera	
Sensor type	CMOS, global shutter
Sensor model	Gpixel Gsprint 4521
Pixel size	4.5 μm × 4.5 μm
Sensor size	23.04 mm × 18.43 mm
Resolution	5120 × 4096
Max. frame rate	221.7 fps @5120 × 4096
Dynamic range	65 dB
SNR	43 dB
Gain	Supports 1.0 ×, 2.0 ×, 4.0 ×
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 × 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 features	
Data interface	CoaXPress with Micro-BNC interface
Digital I/O	12-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), and RS-232 × 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 × 84 mm × 62.5 mm (3.3" × 3.3" × 2.5")
Weight	Approx. 650 g (1.4 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 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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