

MV-CH210-90YM/YC

21MPCMoSCoaXPressAreaScanCamera



GEN< i >CAM

Introduction

MV-CH210-90YM/YC 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 222 fps in full resolution.

Key Feature

- Resolution of 5120×4096 , 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 LSC sequencer polling function.
- Low power consumption without fans.
- Adopts CXP-12 interface to transmit data.
- Compatible with CoaXPress Protocol and GenICam Standard.

Available Model

Mono camera:

MV-CH210-90YM-M58S-NN

Color camera:

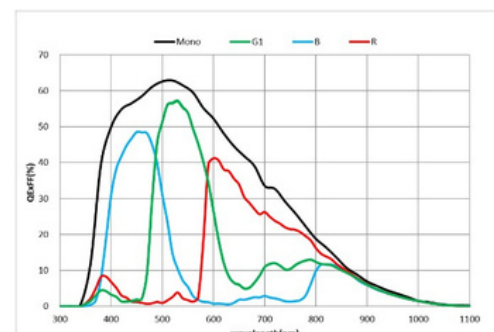
Without fan: MV-CH210-90YC-M58S-NN

With fan: MV-CH210-90YC-M58S-NF

Applicable Industry

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

Sensor Quantum Efficiency

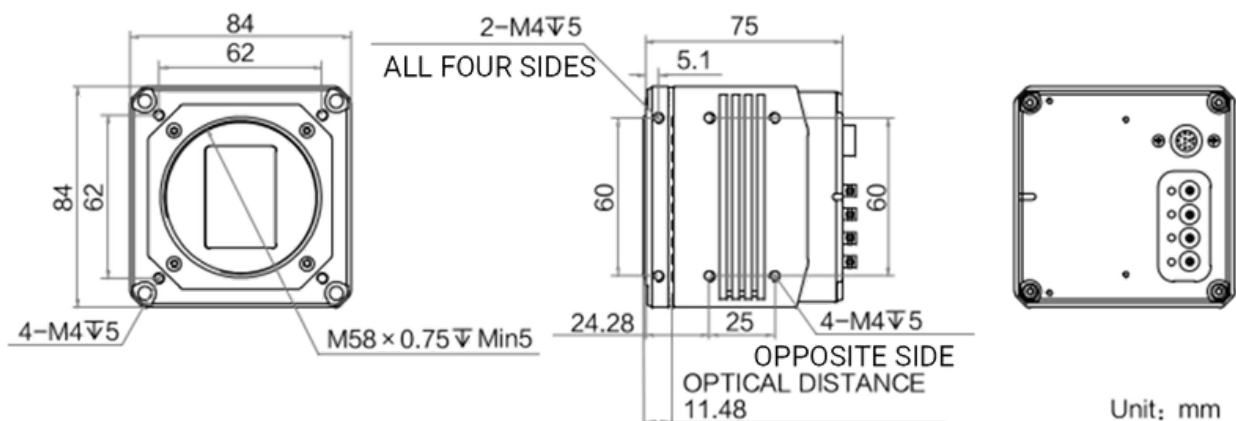


Specification

Model	Camera	MV-CH210-90YM	MV-CH210-90YC
Sensor	type		
Sensor	model	CMOS, global shutter	
Pixel size	Sensor	Gpixel Gsprint 4521	
size	Resolution	4.5 μm × 4.5 μm	
Max. frame	rate	23.04 mm × 18.43 mm	
Dynamic	range	5120 × 4096	
SNR	Gain	222 fps @ 5120 × 4096 Mono 8	222 fps @ 5120 × 4096 Bayer GB 8
Exposure	time	65 dB	
Exposure	mode	43 dB	
Mono/color	Pixel	1.0 ×, 2.0 ×, 4.0 ×	
format	Binning	4 μs to 10 sec	
Decimation		Off/Once/Continuous exposure mode	
Reverse image		Mono	
Electrical features		Mono 8/10/12	
Data interface		Bayer GB 8/10/12	
Digital I/O		Supports 1 × 1, 1 × 2, 1 × 4, 2 × 1, 2 × 2, 2 × 4, 4 × 1, 4 × 2, 4 × 4	
		Supports 1 × 1, 1 × 2, 1 × 4, 2 × 1, 2 × 2, 2 × 4, 4 × 1, 4 × 2, 4 × 4	
		Supports horizontal and vertical reverse image output	
		CoaXPress with Micro-BNC interface	
		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. 18 W @ 24 VDC	With fan: Typ. 18.7 W @ 24 VDC Without fan: Typ. 16.3 W @ 24 VDC
Mechanical			
Lens mount		M58*0.75	
Dimension		With fan: 84 mm × 84 mm × 75 mm (3.3" × 3.3" × 3.0") Without fan: 84 mm × 84 mm × 92.5 mm (3.3" × 3.3" × 3.6")	
Weight		With fan: Approx. 790 g (1.7 lb.) Without fan: 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% 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	
Compatibility		CoaXPress, GenICam	
Certification		CE, RoHS, KC	

Dimension

With fan



Without fan

