

MV-CH1030-90YM

103 MP CMOS CoaXPress Area Scan Camera



GEN*i*CAM

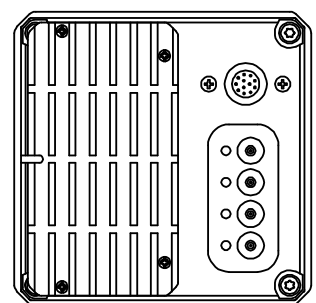
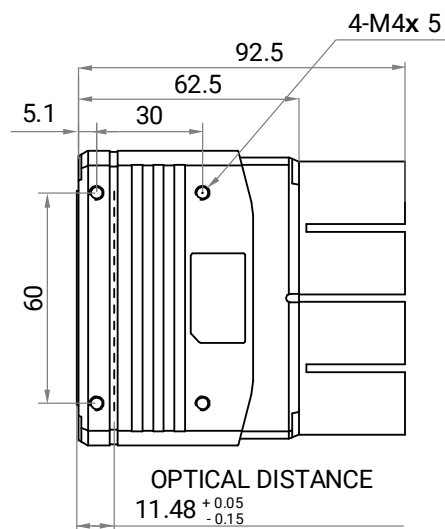
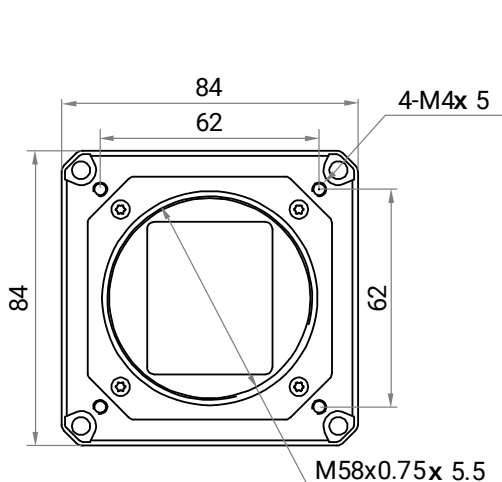
Introduction

MV-CH1030-90YM camera adopts GMAX32103 sensor to provide high-quality image. It uses 4link CXP-12 interface to transmit non-compressed image in real time, and its max. frame rate can reach 24.3 fps in full resolution.

Key Features

- Resolution of 11264×9200 , pixel size of $3.2 \mu\text{m} \times 3.2 \mu\text{m}$.
- Supports auto or manual adjustment of exposure time, and manual adjustment of gain, Gamma correction, LUT, etc.
- Adopts 4link CXP-12 interface to transmit data.
- Adopts installation holes for flexible installation.
- Compatible with CoaXPress Protocol and GenICam Standard.

Dimension



Unit: mm

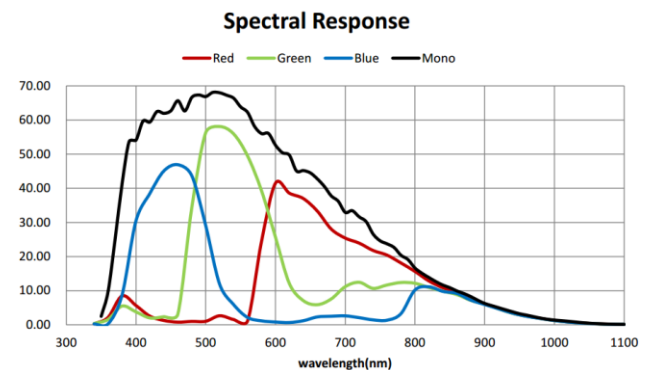
Available Model

- Mono camera: MV-CH1030-90YM-M58S-NN

Applicable Industry

Lithium battery, PCB AOI, FPD, railway related applications, etc.

Sensor Quantum Efficiency



Specification

Model	MV-CH1030-90YM
Performance	
Sensor type	CMOS, global shutter
Sensor model	Gpixel GMAX32103
Pixel size	3.2 μm $\times$ 3.2 μm
Sensor size	36.1 mm $\times$ 29.4 mm
Resolution	11264 $\times$ 9200
Max. frame rate	24.3 fps @ 11264 $\times$ 9200 Mono 8
Dynamic range	63.7 dB
SNR	39.9 dB
Gain	1.4 x to 5.2 x
Exposure time	20 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 feature	
Data interface	CoaXPress with Micro-BNC interface
Digital I/O	12-pin P10 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	12 VDC to 24 VDC, CXP-0 and CXP-1 connectors support PoCXP
Power consumption	Typ. 10.4 W @ 24 VDC
Mechanical	
Lens mount	M58*0.75, flange back length 11.48 mm
Dimension	84 mm $\times$ 84 mm $\times$ 92.5 mm (3.3" $\times$ 3.3" $\times$ 3.6")
Weight	Approx. 650 g (1.4 lb.)
Ingress protection	IP40 (under proper lens installation and wiring)
Temperature	Working temperature: 0 $^{\circ}\text{C}$ to 45 $^{\circ}\text{C}$ (32 $^{\circ}\text{F}$ to 113 $^{\circ}\text{F}$) Storage temperature: -30 $^{\circ}\text{C}$ to 80 $^{\circ}\text{C}$ (-22 $^{\circ}\text{F}$ to 176 $^{\circ}\text{F}$)
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 Window 11, and 32/64-bit Linux
Compatibility	CoaXPress, GenICam
Certification	CE, RoHS, KC