

# MV-CH250-90Y2M

## 25 MP CoaXPress Area Scan Camera



GEN<i>i>CAM

### Introduction

MV-CH250-90Y2M camera adopts Gpixel GMAX0505 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 85 fps in full resolution.

### Key Feature

- Resolution of 5120 × 5120, pixel size of 2.5 μm × 2.5 μm.
- Adopts global shutter CMOS sensor to provide high dynamic range and high-quality image.
- Adopts CXP-12 interface to transmit data.
- Compatible with CoaXPress Protocol, GenICam Standard, and third-party software based on the protocol and standard.

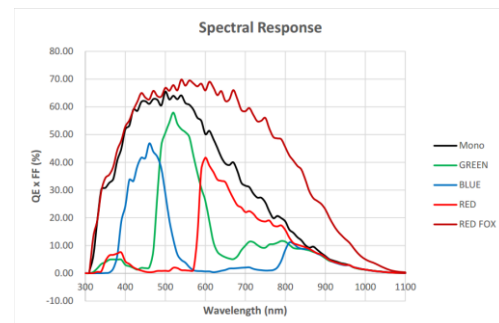
### Available Model

MV-CH250-90Y2M-C-NF

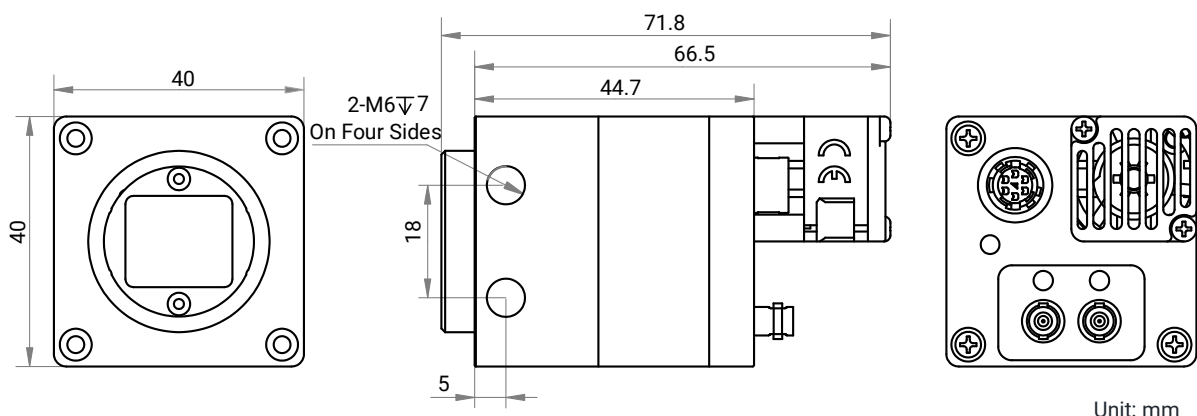
### Applicable Industry

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

### Sensor Quantum Efficiency



### Dimension



## Specification

<b>Model</b>	<b>MV-CH250-90Y2M</b>
<b>Performance</b>	
<b>Sensor type</b>	CMOS, global shutter
<b>Sensor model</b>	Gpixel GMAX0505
<b>Pixel size</b>	2.5 $\mu\text{m}$ $\times$ 2.5 $\mu\text{m}$
<b>Sensor size</b>	1.1"
<b>Resolution</b>	5120 $\times$ 5120
<b>Max. frame rate</b>	85 fps @ 5120 $\times$ 5120 Mono 8
<b>Dynamic range</b>	60 dB
<b>SNR</b>	35 dB
<b>Gain</b>	2.5 $\times$
<b>Exposure time</b>	UltraShort exposure mode: 4 $\mu\text{s}$ to 12 $\mu\text{s}$ Standard exposure mode: 13 $\mu\text{s}$ to 10 sec
<b>Exposure mode</b>	Off/Once/Continuous exposure mode, supports Trigger Width
<b>Mono/color</b>	Mono
<b>Pixel format</b>	Mono 8/10/12
<b>Binning</b>	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
<b>Decimation</b>	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
<b>Reverse image</b>	Supports horizontal and vertical reverse image output
<b>Electrical features</b>	
<b>Data interface</b>	CoaXPress with Micro-BNC interface
<b>Digital I/O</b>	6-pin P7 connector provides power and I/O, including opto-isolated input $\times$ 1 (Line 0), opto-isolated output $\times$ 1 (Line 1), and bi-directional non-isolated I/O $\times$ 1 (Line 2).
<b>Power supply</b>	9 VDC to 24 VDC, CXP-0 supports PoCXP
<b>Power consumption</b>	Typ. 7.1 W @ 12 VDC
<b>Mechanical</b>	
<b>Lens mount</b>	C-mount
<b>Dimension</b>	40 mm $\times$ 40 mm $\times$ 66.5 mm (1.6" $\times$ 1.6" $\times$ 2.6")
<b>Weight</b>	Approx. 134.2 g (0.3 lb.)
<b>Ingress protection</b>	IP40 (under proper lens installation and wiring)
<b>Temperature</b>	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 80 $^{\circ}\text{C}$ (-22 $^{\circ}\text{F}$ to 176 $^{\circ}\text{F}$ )
<b>Humidity</b>	20% RH to 95% RH (no condensation)
<b>General</b>	
<b>Client software</b>	MVS or frame grabber software meeting with CoaXPress Protocol
<b>Operating system</b>	32/64-bit Windows 7/10, 64-bit Windows 11, 32/64-bit Linux
<b>Compatibility</b>	CoaXPress, GenICam
<b>Certifications</b>	CE, RoHS, KC