

# MV-CH650-90YM/YC

65 MP CMOS CoaXPress Area Scan Camera



GEN<i>i</i>CAM

CoaXPress®

## Introduction

MV-CH650-90YM/YC camera adopts Gpixel GMAX3265 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 71 fps in full resolution.

## Key Feature

- Resolution of 9344 × 7000, pixel size of 3.2 μm × 3.2 μm.
- Adopts global shutter CMOS to provide high dynamic range, SNR, and high-quality images.
- Supports LSC sequencer polling function.
- Adopts CXP-12 interface to transmit data.
- Supports the flat field correction.
- Compatible with CoaXPress Protocol, GenICam Standard, and third-party software based on the protocol and standard.

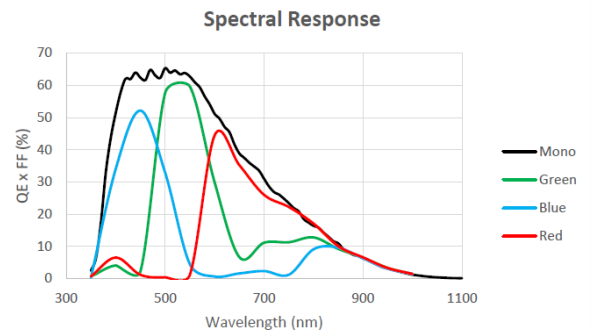
## Available Model

- Mono camera: MV-CH650-90YM-M58S-NN
- Color camera: MV-CH650-90YC-M58S-NN

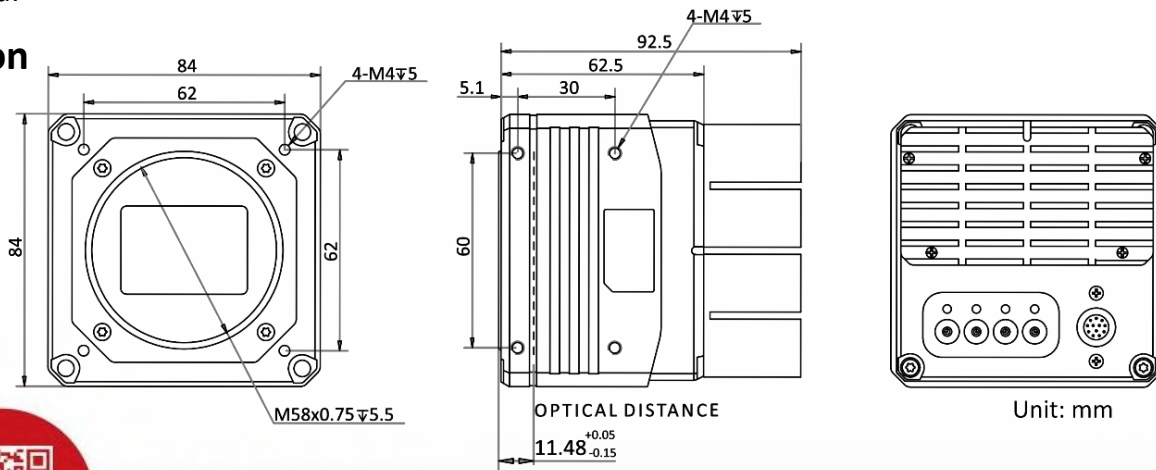
## Applicable Industry

PCB AOI, FPD, high-accuracy measurement, etc.

## Sensor Quantum Efficiency



## Dimension



# Specification

Model	MV-CH650-90YM	MV-CH650-90YC
<b>Camera</b>		
Sensor type	CMOS, global shutter	
Sensor model	Gpixel GMAX3265	
Pixel size	3.2 μm × 3.2 μm	
Sensor size	29.9 mm × 22.4 mm	
Resolution	9344 × 7000	
Max. frame rate	71 fps @9344 × 7000	
Dynamic range	66 dB	
SNR	40 dB	
Gain	1.25x	
Exposure time	15 μs to 10 sec	
Exposure mode	Off/Once/Continuous exposure mode	
Mono/color	Mono	Color
Pixel format	Mono 8/10/12	Bayer BG 8/10/12
Binning	Supports 1 × 1, 2 × 2, 4 × 4	
Decimation	Supports 1 × 1, 2 × 2, 4 × 4	
Reverse image	Supports horizontal and vertical reverse image output	
<b>Electrical features</b>		
Data interface	CoaXPress with Micro-BNC interface	
Digital I/O	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	24 VDC, CXP-1 and CXP-2 connectors support PoCXP	
Power consumption	Typ. 13.0 W@24 VDC	Typ. 13.2 W@24 VDC
<b>Mechanical</b>		
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	
<b>General</b>		
Client software	MVS or frame grabber software meeting with CoaXPress Protocol	
Operating system	32/64-bit Windows 7/10 with 8 GB memory or above	
Compatibility	CoaXPress, GenICam	
Certification	CE, FCC, RoHS, KC	

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