

# MV-CH650-90YM/YC

65 MP CMOS CoaXPress Area Scan Camera



GEN*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.

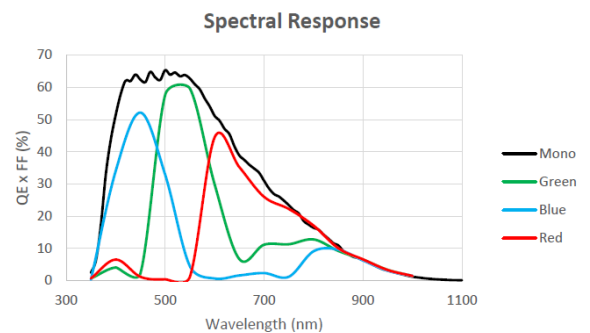
## Available Model

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

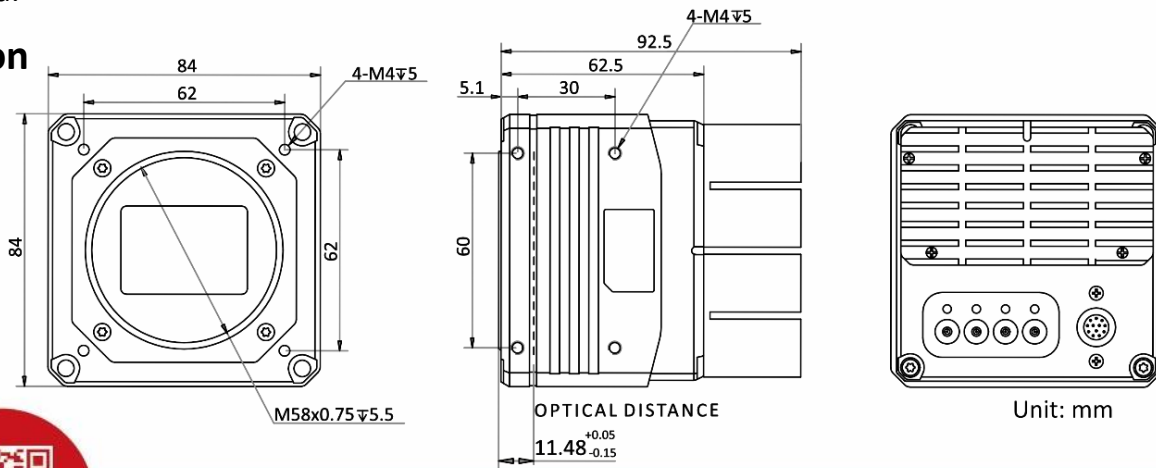
## Applicable Industry

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)<br>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   |                    |

**HIKROBOT**

Hangzhou Hikrobot Technology Co., Ltd.  
No.399 Danfeng Road, Binjiang District, Hangzhou 310051, China.  
en.hikrobotics.com

**MaxxVision®**  
Sigmaringer Str. 121  
70567 Stuttgart  
Tel.: 0711 997 996 3  
[www.maxxvision.com](http://www.maxxvision.com)

Copyright Hikrobot

Hangzhou Hikrobot Technology Co., Ltd. All Rights Reserved. Hangzhou Hikrobot Technology does not tolerate any infringement. Any organization or individual may not imitate or reproduce in whole or in part of the content. The data herein is based on Hikrobot's internal evaluation. Actual data may vary depending on specific configuration and operating condition. The information herein is subject to change without notice. All the content has been checked conscientiously. Nevertheless, Hikrobot shall not be liable to damages resulting from errors, inconsistencies or omissions.