

## MV-CH650-90YM

### 65 MP CMOS CoaXPress Area Scan Camera



GEN<I>CAM

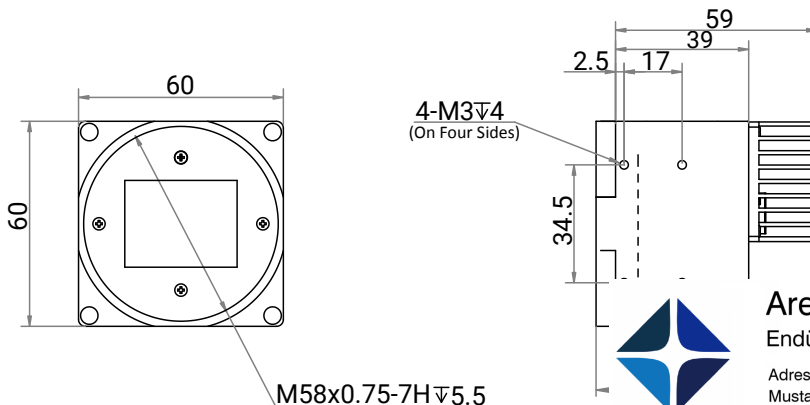
### Introduction

MV-CH650-90YM 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.
- Adopts CXP-12 interface to transmit data.
- Compact design, low power consumption without cooling fan.
- Compatible with CoaXPress Protocol, GenICam Standard, and third-party software based on the protocol and standard.

### Dimension



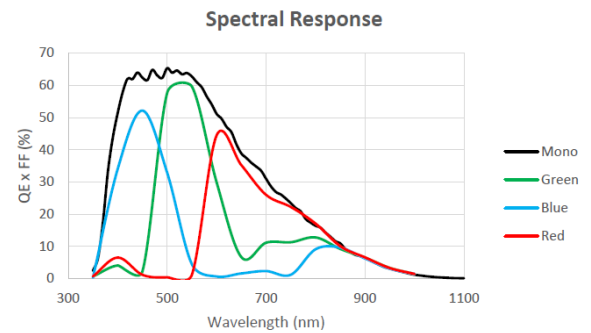
### Available Model

MV-CH650-90YM-M58S-NN (V2.0)

### Applicable Industry

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

### Sensor Quantum Efficiency



**Aremaç Biliřim Teknolojileri**  
Endüstriyel Görüntü İřleme Çözümleri

Adres: ODTÜ Teknokent Biliřim ve İnovasyon Merkezi,  
Mustafa Kemal Mahallesi, Dumlupınar Bulvarı No:280G,  
İç Kapı No:1260, Çankaya, Ankara/Türkiye

W: [www.aremak.com.tr](http://www.aremak.com.tr)  
E: [shop@aremak.com.tr](mailto:shop@aremak.com.tr)  
T: +908502551506

|                            |   |
|----------------------------|---|
| <b>Model</b>               | <b>MV-CH650-90YM</b>  |
| <b>Performance</b>         |   |
| <b>Sensor type</b>         | CMOS, global shutter  |
| <b>Sensor model</b>        | Gpixel GMAX3265   |
| <b>Pixel size</b>          | 3.2 $\mu\text{m}$ $\times$ 3.2 $\mu\text{m}$  |
| <b>Sensor size</b>         | 29.9 mm $\times$ 22.4 mm  |
| <b>Resolution</b>          | 9344 $\times$ 7000  |
| <b>Max. frame rate</b>     | 71 fps @9344 $\times$ 7000 Mono 8   |
| <b>Dynamic range</b>       | 66 dB   |
| <b>SNR</b>                 | 40 dB   |
| <b>Gain</b>                | 1.25 $\times$   |
| <b>Exposure time</b>       | 12 $\mu\text{s}$ to 10 sec  |
| <b>Exposure mode</b>       | Off/Once/Continuous exposure mode   |
| <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>         | 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.                             |
| <b>Power supply</b>        | 12 VDC to 24 VDC, CXP-0 and CXP-1 connectors support PoCXP  |
| <b>Power consumption</b>   | Typ. 14.4 W@12 VDC  |
| <b>Mechanical</b>          |   |
| <b>Lens mount</b>          | M58*0.75, flange focal length 11.48 mm (0.5")   |
| <b>Dimension</b>           | 60 mm $\times$ 60 mm $\times$ 59 mm (2.4" $\times$ 2.4" $\times$ 2.3") (cooling fins are optional)  |
| <b>Weight</b>              | Approx. 285 g (0.6 lb.)   |
| <b>Ingress protection</b>  | IP40 (under proper lens installation and wiring)  |
| <b>Temperature</b>         | Working temperature: 0 $^{\circ}\text{C}$ to 40 $^{\circ}\text{C}$ (32 $^{\circ}\text{F}$ to 104 $^{\circ}\text{F}$ )<br>Storage temperature: -30 $^{\circ}\text{C}$ to 70 $^{\circ}\text{C}$ (-22 $^{\circ}\text{F}$ to 158 $^{\circ}\text{F}$ ) |
| <b>Humidity</b>            | 20% to 95% RH, non-condensing   |
| <b>General</b>             |   |
| <b>Client software</b>     | MVS or third-party 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>Certification</b>       | CE, RoHS, KC, UL  |

