

# MV-CL086-B0F1C

## 8K XoFLink Line Scan Camera



GEN*i*CAM

XoFLink

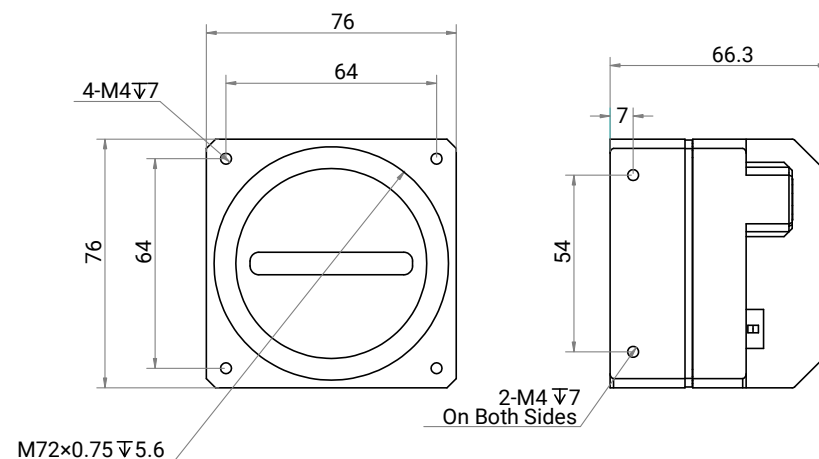
### Introduction

MV-CL086-B0F1C camera adopts  $8192 \times 12$  CMOS sensor and supports transmission protocol of XoFLink, and its max. line rate reaches 40 kHz. It supports true color & TDI imaging, integrates multiple advanced ISP image processing technologies, and is featured with high speed, high accuracy, and high sensitivity.

### Key Feature

- Supports RGB true color, image mode of single line and TDI, multiple exposure and acquisition modes.
- Adopts multiple ISP like Gamma correction, flat field correction, LUT, black level, color adjustment, etc.
- Supports transmission protocol of XoFLink with reliable data acquisition.
- Compact design, flexible installation, and efficient heat dissipation.

### Dimension



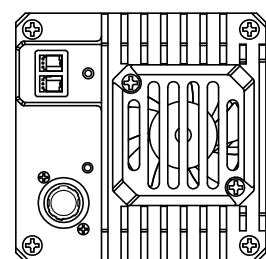
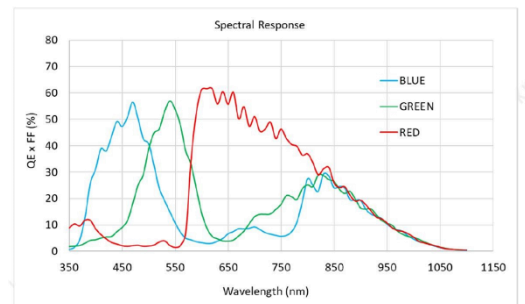
### Available Model

MV-CL086-B0F1C

### Applicable Industry

PCB, printing, stone material, wood material, new energy, etc.

### Sensor Quantum Efficiency



Unit: mm

## Specification

| Model                     | MV-CL086-B0F1C                                                                                                                                                                                                                                      |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                           | 8K XoFLink Line Scan Camera                                                                                                                                                                                                                         |
| <b>Performance</b>        |                                                                                                                                                                                                                                                     |
| Sensor type               | CMOS                                                                                                                                                                                                                                                |
| Pixel size                | 5 $\mu\text{m}$ $\times$ 5 $\mu\text{m}$                                                                                                                                                                                                            |
| Resolution                | 8192 $\times$ 12                                                                                                                                                                                                                                    |
| Image mode                | 1-Line, 2-TDI, 4-TDI                                                                                                                                                                                                                                |
| Max. line rate            | 40 kHz (under all image modes)                                                                                                                                                                                                                      |
| Dynamic range             | 63.7 dB                                                                                                                                                                                                                                             |
| SNR                       | 39.7 dB                                                                                                                                                                                                                                             |
| Gain                      | 1.0 $\times$ , 1.3 $\times$ , 2.0 $\times$ , 4.0 $\times$                                                                                                                                                                                           |
| Exposure time             | 3 $\mu\text{s}$ to 10 ms                                                                                                                                                                                                                            |
| Exposure mode             | Off/ Once/ Continuous exposure mode, and supports fixed exposure time and trigger-width exposure time                                                                                                                                               |
| Mono/color                | Color                                                                                                                                                                                                                                               |
| Pixel format              | RGB 8, BGR 8, Mono 8/10/12, Bayer RG 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                                                                                                               |
| Reverse image             | Supports horizontal reverse image output                                                                                                                                                                                                            |
| Trigger mode              | External trigger, internal trigger                                                                                                                                                                                                                  |
| External trigger mode     | Line trigger, frame trigger, line + frame trigger                                                                                                                                                                                                   |
| <b>Electrical feature</b> |                                                                                                                                                                                                                                                     |
| Data interface            | LC fiber interface                                                                                                                                                                                                                                  |
| Digital I/O               | Not supported                                                                                                                                                                                                                                       |
| Power supply              | 12 VDC to 24 VDC                                                                                                                                                                                                                                    |
| Power consumption         | Typ. 14.4 W @ 12 VDC                                                                                                                                                                                                                                |
| <b>Mechanical</b>         |                                                                                                                                                                                                                                                     |
| Lens mount                | M72*0.75, flange back length 12 mm, applicable to F-mount via lens adapter                                                                                                                                                                          |
| Dimension                 | 76 mm $\times$ 76 mm $\times$ 66.3 mm (3.0" $\times$ 3.0" $\times$ 2.6")                                                                                                                                                                            |
| Weight                    | Approx. 465 g (1.0 lb.)                                                                                                                                                                                                                             |
| Ingress protection        | IP40 (under proper lens installation and wiring)                                                                                                                                                                                                    |
| Temperature               | Working temperature: -20 $^{\circ}\text{C}$ to 55 $^{\circ}\text{C}$ (-4 $^{\circ}\text{F}$ to 131 $^{\circ}\text{F}$ )<br>Storage temperature: -30 $^{\circ}\text{C}$ to 80 $^{\circ}\text{C}$ (-22 $^{\circ}\text{F}$ to 176 $^{\circ}\text{F}$ ) |
| Humidity                  | 5% RH to 90% RH (no condensation)                                                                                                                                                                                                                   |
| <b>General</b>            |                                                                                                                                                                                                                                                     |
| Client software           | MVS or third-party software (Halcon/VP)                                                                                                                                                                                                             |
| Operating system          | 32/64-bit Windows 7/10, 64-bit Windows 11, 32/64-bit Linux                                                                                                                                                                                          |
| Compatibility             | XoFLink, GenICam                                                                                                                                                                                                                                    |
| Certification             | CE, RoHS, KC                                                                                                                                                                                                                                        |