



# LI-IMX662-MIPI-081H



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## INTRODUCTION

The LI-IMX662-MIPI-081H is a MIPI CSI-2 camera with Sony STARVIS 2 diagonal 6.45 mm (Type 1/2.8) CMOS sensor IMX662. This camera outputs 10-bit / 12-bit RAW data.

## SPECIFICATIONS

|                    |                                                                              |
|--------------------|------------------------------------------------------------------------------|
| Sensor             | Sony STARVIS 2 Diagonal 6.45 mm CMOS Image Sensor IMX662                     |
| Optical Format     | 1/2.8"                                                                       |
| Resolution         | 1937 (H) x 1097 (V) (active pixels)                                          |
| Pixel Size         | 2.9 x 2.9 $\mu$ m                                                            |
| Output Format      | 10-bit / 12-bit RAW data                                                     |
| Maximum Frame Rate | 12-bit: 60 fps @ all-pixel scan mode<br>10-bit: 90 fps @ all-pixel scan mode |
| ISP                | Not included                                                                 |
| Color / Mono       | Color                                                                        |
| Interface          | 4-lane MIPI CSI-2                                                            |
| Power Consumption  | 212 mA @ 5 VDC<br>(1936 x 1100 @ 30 fps)                                     |
| Operating Temp     | -30°C ~ +85°C                                                                |
| Storage Temp       | -30°C ~ +85°C                                                                |
| Weight             | ~ 16 g                                                                       |
| Size               | 38.0 (L) x 38.0 (W) x 30.0 (D) mm                                            |
| Part#              | LI-IMX662-MIPI-081H                                                          |

## APPLICATIONS

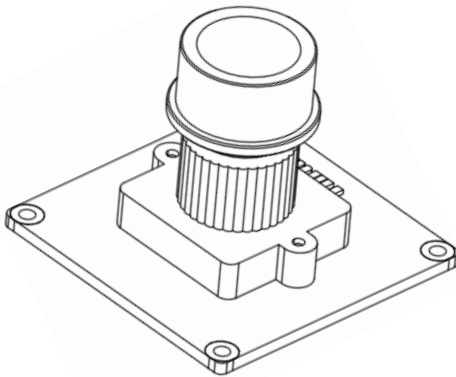
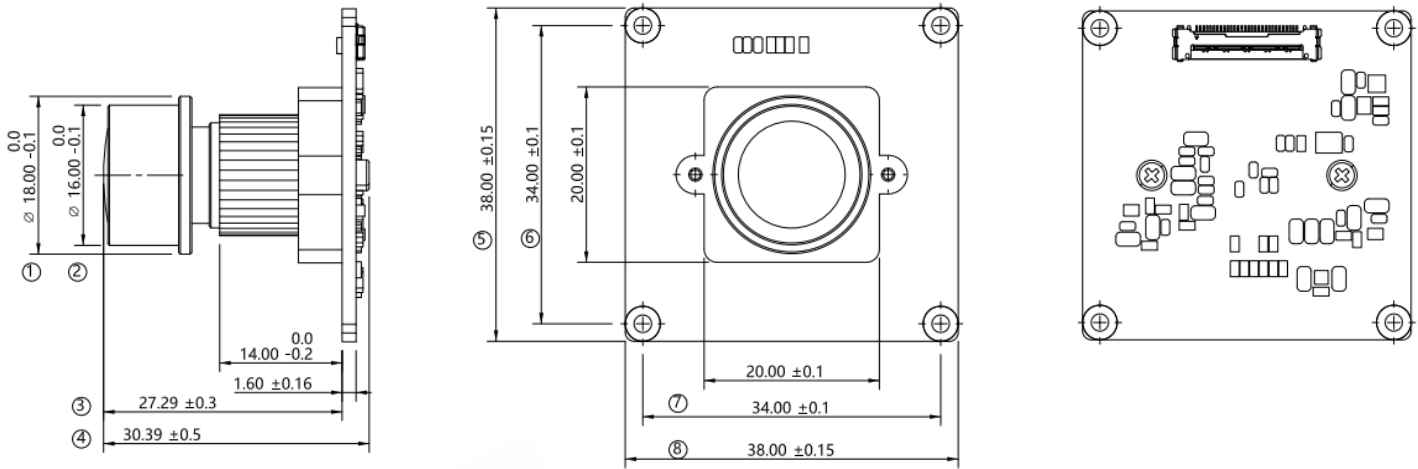
- IoT
- Drone
- Robots

## LENS SPECIFICATIONS

|                        |                            |
|------------------------|----------------------------|
| Effective Focal Length | 4.063 mm                   |
| Aperture, F/#          | 2.29 $\pm$ 5%              |
| Field of View (FOV)    | 81.7° (H) @ IH 2.784       |
|                        | 44.7° (V) @ IH 1.566       |
|                        | 95.1° (D) @ IH 3.194       |
| TV Distortion          | -9.3%                      |
| Relative Illumination  | 59.1% @ 1.0F (IH 3.194 mm) |
| IR Filter              | 650 nm IR cut filter       |
| Lens Mount             | M12 x 0.5                  |



## DIMENSIONS



| TOLERANCE TABLE     |           |                   |           |                    |               |
|---------------------|-----------|-------------------|-----------|--------------------|---------------|
| LENGTH TOLERANCE    |           | CHAMFER TOLERANCE |           | ANGLE TOLERANCE    |               |
| Size X              | Tolerance | Size X            | Tolerance | Size X             | Tolerance     |
| $0.5 < X \leq 3$    | $\pm 0.1$ | $0.5 < X \leq 3$  | $\pm 0.2$ | $X \leq 10$        | $\pm 1^\circ$ |
| $3 < X \leq 6$      | $\pm 0.1$ | $3 < X \leq 6$    | $\pm 0.5$ | $10 < X \leq 50$   | $\pm 30'$     |
| $6 < X \leq 30$     | $\pm 0.2$ | $6 < X \leq 30$   | $\pm 1$   | $50 < X \leq 120$  | $\pm 20'$     |
| $30 < X \leq 120$   | $\pm 0.3$ |                   |           | $120 < X \leq 400$ | $\pm 10'$     |
| $120 < X \leq 400$  | $\pm 0.5$ |                   |           |                    |               |
| $400 < X \leq 1000$ | $\pm 0.8$ | $X > 30$          | $\pm 2$   | $X > 400$          | $\pm 5'$      |
| $X > 1000$          | $\pm 1.2$ |                   |           |                    |               |

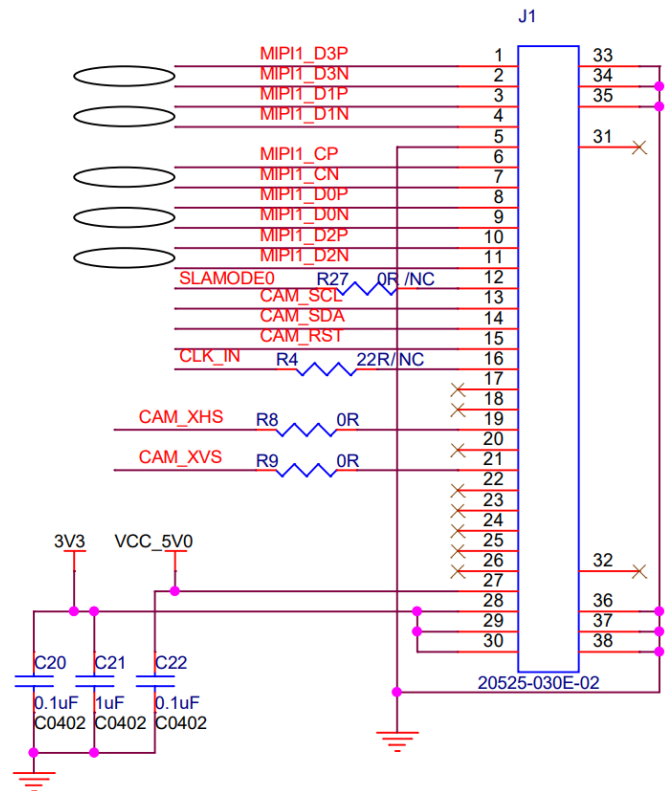
### NOTE:

- ⊗ marked are important sizes.
- Other unmarked tolerances refer to the Tolerance table.

Unit: mm

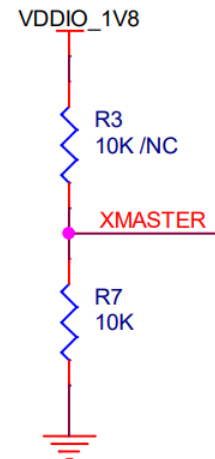
## INTERFACE J1

- Connector Part#: 20525-030E-02
- Number of Positions: 30
- Pitch: 0.4 mm
- Mating I-PEX cable: LI-FAW-1233
- Sensor I2C Address: 0x10 (7-bit)
- External Power Supply: 3.3V and 5.0V
- 3.3V (analog), 1.8V and 1.1V are generated from board



## MODE (Master / Slave)

- Default Mode: Master



XMASTER = High: Slave mode  
XMASTER = Low: Master mode

## ● REVISION HISTORY

| Revision | Description    | Release Date |
|----------|----------------|--------------|
| 1.0      | First release. | 03 Mar 2023  |

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