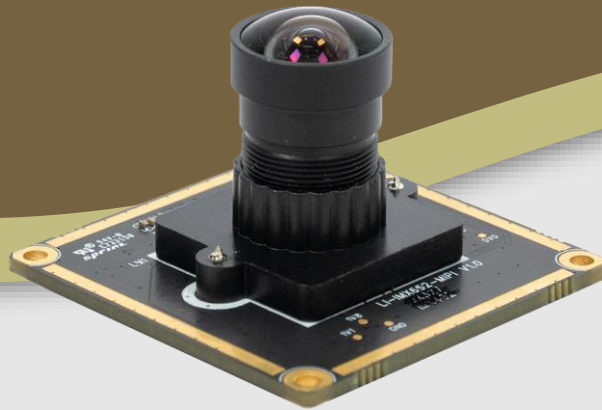




LEOPARD
IMAGING

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 μm
Output Format	10-bit / 12-bit RAW data
Maximum Frame Rate	12-bit: 60 fps @ all-pixel scan mode 10-bit: 90 fps @ all-pixel scan mode
ISP	Not included
Color / Mono	Color
Interface	4-lane MIPI CSI-2
Work Mode	Master
Power Consumption	212 mA @ 5 VDC (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

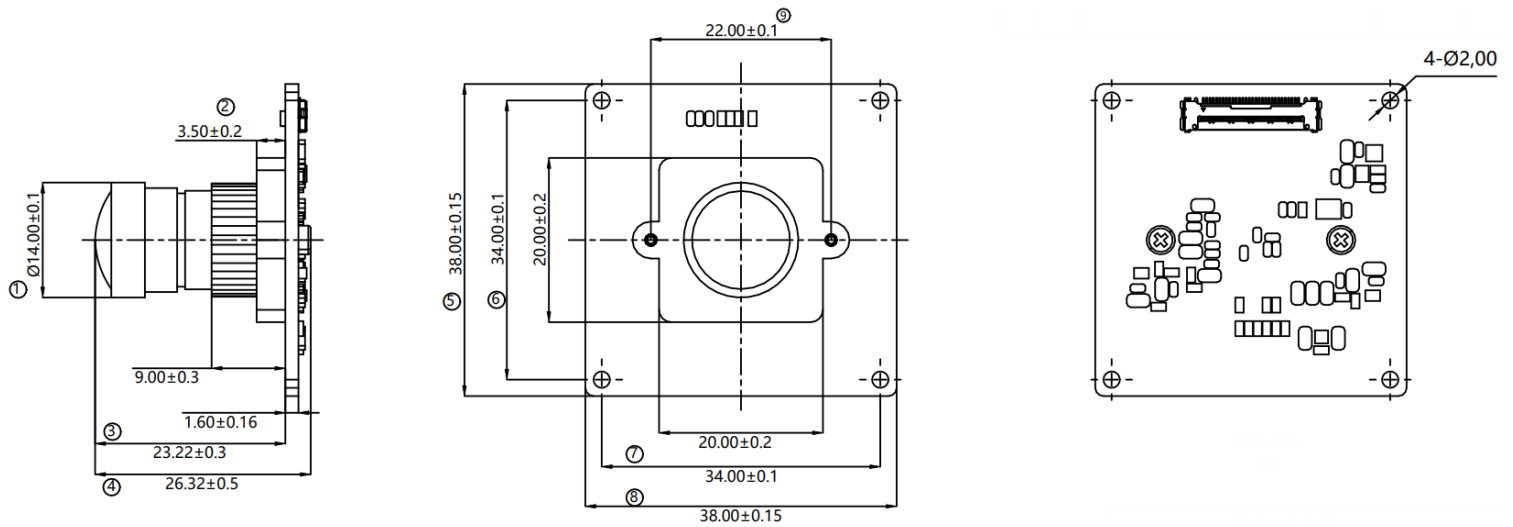
- IoT
- Drone
- Robots

LENS SPECIFICATIONS

Effective Focal Length	3.25 mm $\pm$ 5%
Aperture, F/#	2.60 $\pm$ 5%
Field of View (FOV)	81° horizontal
IR Filter	650 nm IR cut filter
Lens Mount	M12 x P0.5



DIMENSIONS



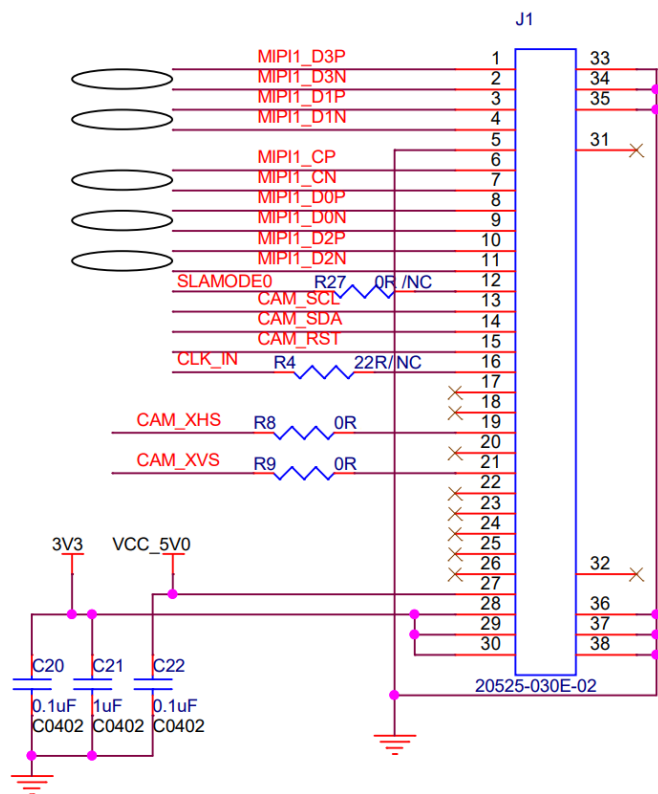
NOTE:

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

TOLERANCE TABLE					
LENGTH TOLERANCE		CHAMFER TOLERANCE		ANGLE TOLERANCE	
Size X	Tolerance	Size X	Tolerance	Size X	Tolerance
0.5 < X ≤ 3	±0.1	0.5 < X ≤ 3	±0.2	X ≤ 10	±1°
3 < X ≤ 6	±0.1	3 < X ≤ 6	±0.5	10 < X ≤ 50	±30'
6 < X ≤ 30	±0.2	6 < X ≤ 30	±1	50 < X ≤ 120	±20'
30 < X ≤ 120	±0.3	X > 30	±2	120 < X ≤ 400	±10'
120 < X ≤ 400	±0.5			X > 400	±5'
400 < X ≤ 1000	±0.8				
X > 1000	±1.2				

MIPI CONNECTOR 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



MIPI Connector Pinout

Pin No	Signal Name	Pin Type	Description	Voltage Level
1	MIPI_D3P	OUTPUT	MIPI Clock Data3 Differential Pair +	MIPI DPHY
2	MIPI_D3N	OUTPUT	MIPI Clock Data3 Differential Pair -	MIPI DPHY
3	MIPI_D1P	OUTPUT	MIPI Clock Data1 Differential Pair +	MIPI DPHY
4	MIPI_D1N	OUTPUT	MIPI Clock Data1 Differential Pair -	MIPI DPHY
5	GND	-	-	-
6	MIPI_CP	OUTPUT	MIPI Clock Lane Differential Pair +	MIPI DPHY
7	MIPI_CN	OUTPUT	MIPI Clock Lane Differential Pair -	MIPI DPHY
8	MIPI_D0P	OUTPUT	MIPI Clock Data0 Differential Pair +	MIPI DPHY
9	MIPI_D0N	OUTPUT	MIPI Clock Data0 Differential Pair -	MIPI DPHY
10	MIPI_D2P	OUTPUT	MIPI Clock Data2 Differential Pair +	MIPI DPHY
11	MIPI_D2N	OUTPUT	MIPI Clock Data2 Differential Pair -	MIPI DPHY
12	SLAMODE0	INPUT	Master / Slave selection input (Reserved) Master mode in default	1.8V
13	CAM_SCL	INPUT	1.8V IO Camera I2C SCL signal (Pulled up to 1.8V with 1k)	1.8V

Pin No	Signal Name	Pin Type	Description	Voltage Level
14	CAM_SDA	I/O	1.8V IO Camera I2C SDA signal (Pulled up to 1.8V with 1k)	1.8V
15	CAM_RST	INPUT	1.8V IO camera reset signal (Pulled up to 1.8V with 10k)	1.8V
16	CLK_IN	INPUT	Reserved CLK for camera	1.8V
17	-	-	-	-
18	-	-	-	-
19	CAM_XHS	I/O	Reserved horizontal sync signal	1.8V
20	-	-	-	-
21	CAM_XVS	I/O	Reserved vertical sync signal	1.8V
22	-	-	-	-
23	-	-	-	-
24	-	-	-	-
25	-	-	-	-
26	-	-	-	-
27	5V0	POWER	5V power supply	5V
28	3V3	POWER	3.3V power supply	3.3V
29	3V3	POWER	3.3V power supply	3.3V
30	3V3	POWER	3.3V power supply	3.3V

LI-RB-IMX662-MIPI-081H

INTRODUCTION

When connecting IMX662 MIPI camera with Qualcomm platform, following adaptor board and cables will be needed.

P/N for kit connection: **LI-RB-IMX662-MIPI-081H**

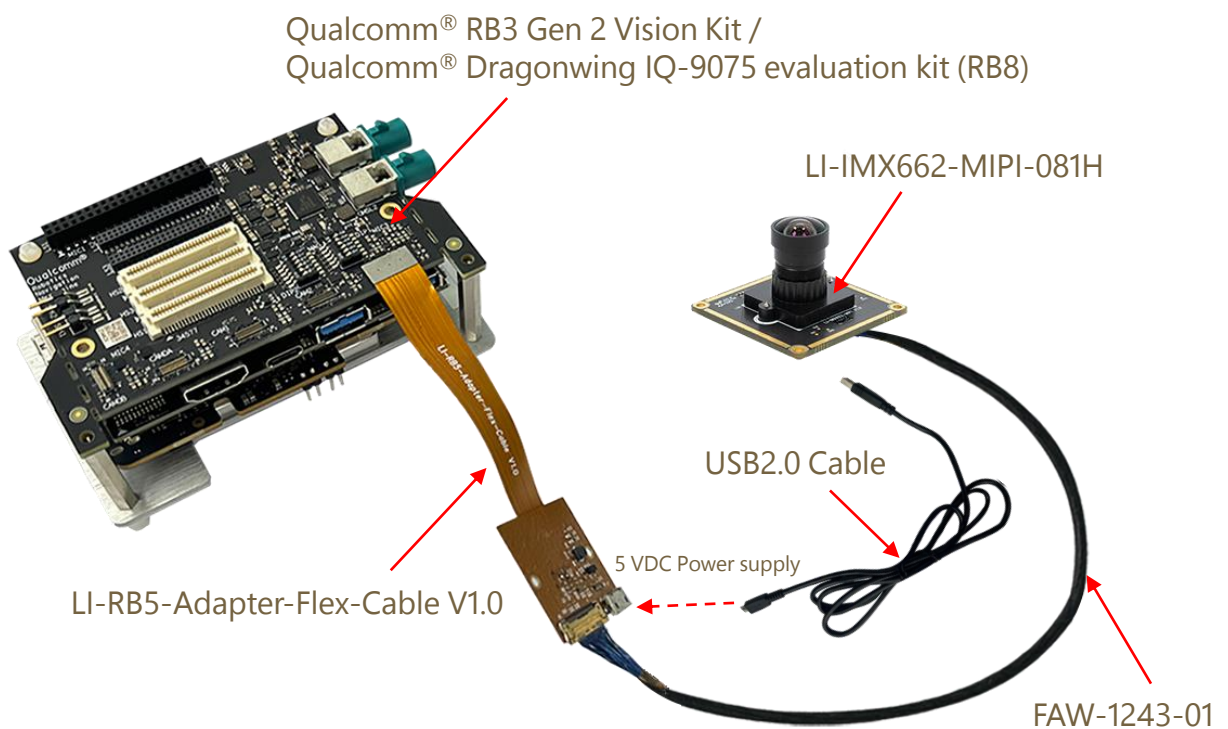
BOM

#	Items	QTY
1	LI-IMX662-MIPI-081H	1
2	LI-RB5-Adapter-Flex-Cable V1.0	1
3	FAW-1243-01	1
4	USB 2.0 Cable (Connecting with platform USB port as camera external power source)	1

NOTE: Qualcomm® Development Kit is **NOT** included.

Supported platform:

- ✓ Qualcomm® RB3 Gen 2 Vision Kit
- ✓ Qualcomm® Dragonwing IQ-9075 evaluation kit (RB8)



LI-RPI-IMX662-MIPI-081H

INTRODUCTION

When connecting IMX662 MIPI camera with Raspberry platform, following adaptor board and cables will be needed.

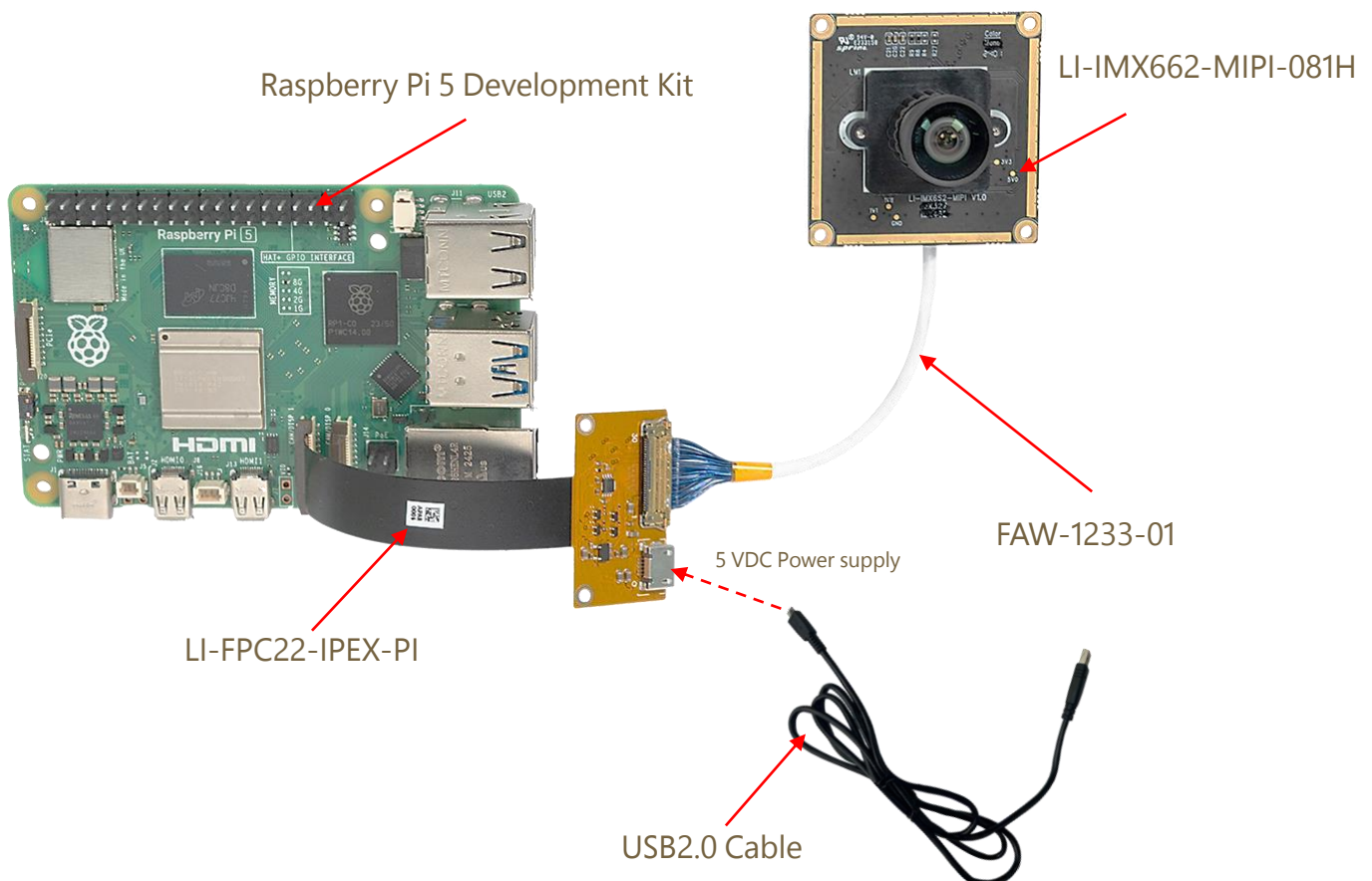
P/N for kit connection: **LI-RPI-IMX662-MIPI-081H**

BOM

#	Items	QTY
1	LI-IMX662-MIPI-081H	1
2	LI-FPC22-IPEX-PI	1
3	FAW-1233-01	1
4	USB 2.0 Cable (Connecting with platform USB port as camera external power source)	1

NOTE: Raspberry Pi 5 Development Kit is **NOT** included.

Supported platform: Raspberry Pi 5 Development Kit



● REVISION HISTORY

Revision	Description	Release Date
1.0	First release.	03 Mar 2023
1.1	1. Updated lens info. 2. Updated MIPI conn info. 3. Added supported platforms info.	26 Aug 2025
1.2	Updated supported platform.	08 Jul 2026

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