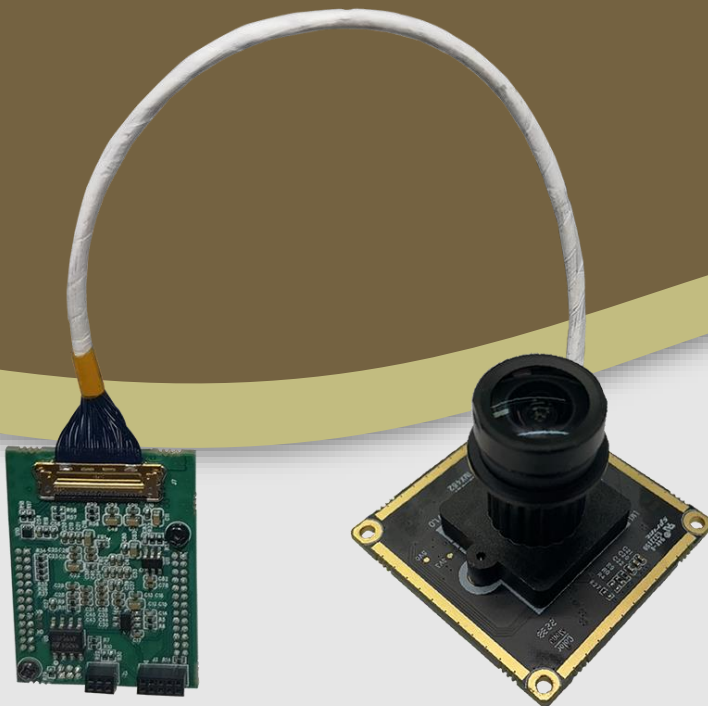




LI-USB30-IMX662-MIPI-081H

**Address:**

910 Auburn Ct
Fremont, CA 94538
USA

**Phone:**

+1 (408)263-0988

Fax:

+1 (408)217-1960

**Sales:**

sales@leopardimaging.com

Support:

support@leopardimaging.com

Key Features

- USB 3.0 Super Speed support
- RAW data output without compression
- UVC compliant
- Color camera
- M12 lens
- Allows customization
- USB + 5 VDC powered device
- Part#: **LI-USB30-IMX662-MIPI-081H**

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

Applications

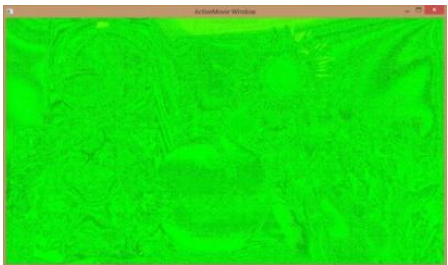
- IoT
- Drone
- Robot

SDK Supported

- Camera Tool Source Code in C#
- Capture & Display
- RAW to RGB Conversion
- Save file as BMP & RAW format
- Color Matrix
- Register access function

BOM

#	Items	QTY
1	LI-IMX662-MIPI-081H	1
2	LI-USB30 Main board	1
3	LI-CSLINK-IPX-TESTER	1
4	FAW-1233-02 (200 mm)	1
5	USB3.0 Cable	1



RAW Data Streaming



Camera Tool View Mode

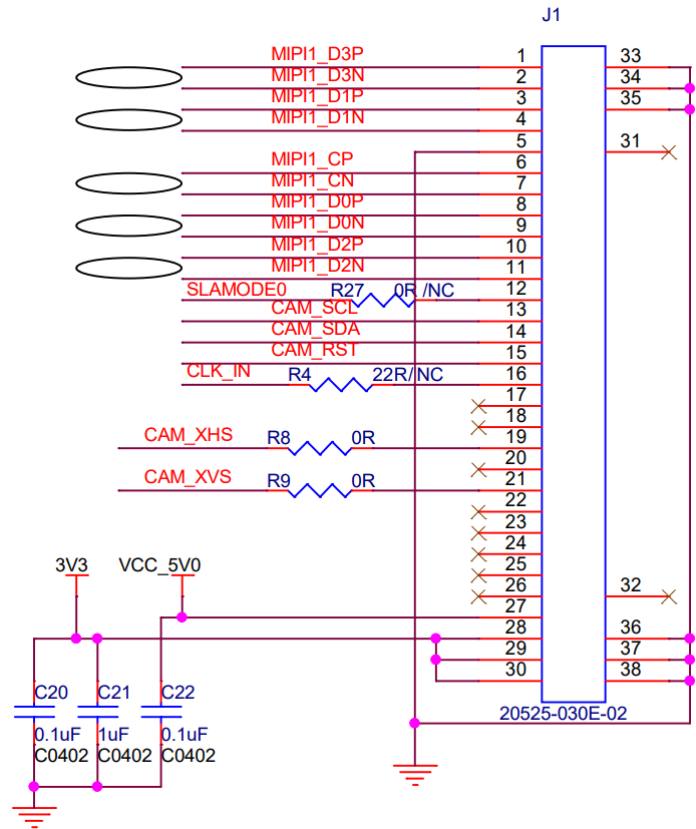
SEPCIFICATIONS

General Behavior	
Video Resolution @ Frame rate	1936 x 1100 @ 30 fps
Bit Depth	12-bit
Interface (Optical)	
IR Cut Filter (on lens)	650 nm IR cut filter
Sensor	Sony STARVIS 2 Diagonal 6.45 mm CMOS Image Sensor IMX662
Color / Mono	Color
Format	1/2.8"
Active Pixels	1937 (H) x 1097 (V) (active pixels)
Pixel Size	2.9 x 2.9 μm
Lens Mount	M12
Interface (Electrical)	
Interface	USB 3.0
Supply Voltage	USB 3.0 + 5 VDC power source
Current Consumption	212 mA @ 5 VDC
Interface (Mechanical)	
Dimensions	LI-IMX662-MIPI-081H: 38.0 (L) x 38.0 (W) mm
	LI-USB30 Main board: 26.0 (L) x 26.0 (W) mm
	LI-CSLINK-IPX-TESTER: 36.5 (L) x 26.5 (W) mm
Weight (Without FAW-1233-xx cable)	LI-IMX662-MIPI-081H + LI-USB30 Main board + LI-CSLINK-IPX-TESTER: ~ 27 g
Adjustment (Manual)	
Register Access	Yes
Environmental	
Operating Temperature	LI-IMX662-MIPI-081H: -30°C ~ +85°C
	LI-USB30-IMX662-MIPI-081H: TBD
Storage Temperature	LI-IMX662-MIPI-081H: -30°C ~ +85°C
	LI-USB30-IMX662-MIPI-081H: TBD
Supported OS	
Windows OS, Standard Linux OS and other embedded OS which support UVC	

LI-IMX662-MIPI-081H INTERFACES

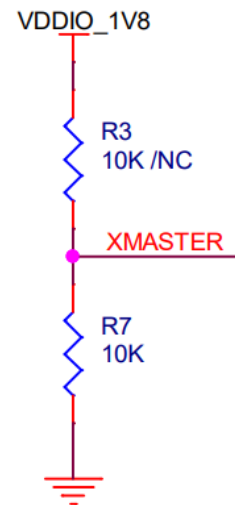
Interface J1 (MIPI Connector)

- Connector Part#: 20525-030E-02
- Number of Positions: 30
- Pitch: 0.4 mm
- 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
- Mating I-PEX cable: LI-FAW-1233



Mode (Master / Slave)

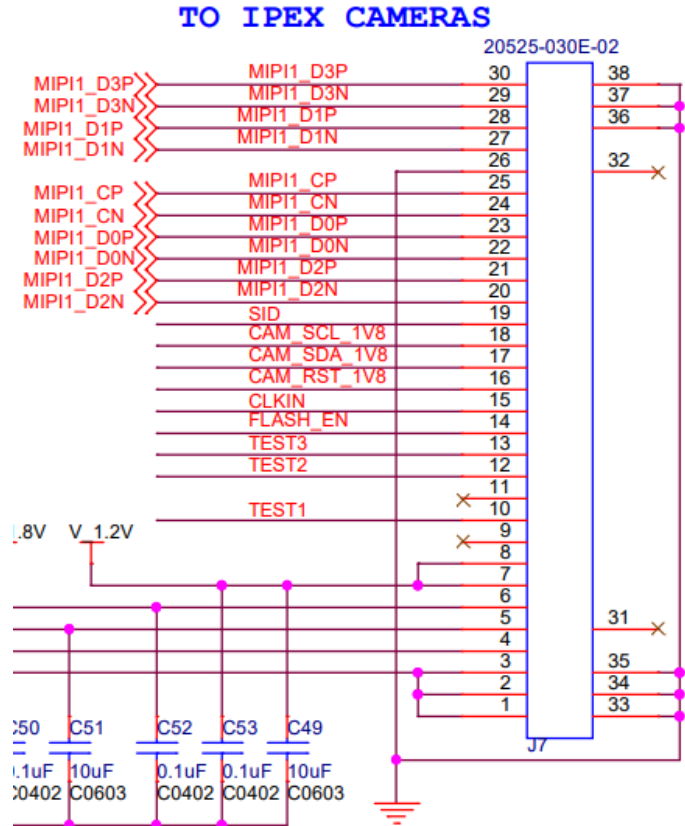
- Default Mode: Master



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

LI-CSLINK-IPX-TESTER INTERFACE (To Camera)

- Part#: 20525-030E-02
- Number of Positions: 30
- Pitch: 0.4 mm
- Mating I-PEX Cable: FAW-1233-xx



● REVISION HISTORY

Revision	Description	Release Date
0.1	Initial draft.	27 Apr 2023

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