



LEOPARD
IMAGING

LI-USB30-IMX454-MIPI-092H



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Key Features

- USB 3.0 Super Speed support
- UVC compliant
- Multispectral imaging camera
- Supports up to 41 channels
- Default M12 lens
- Allows customization
- USB + 5 VDC powered device
- Part#: **LI-USB30-IMX454-MIPI-092H**

Lens Specifications

Focal Length	3.6 mm
Aperture, F/#	2.1
Field of View (FOV)	92° horizontal
OP Distortion	<-37%
Relative Illumination	>50%
Optical low pass filter	350nm-1150nm, T>90%
Lens Mount	M12 x P0.5



Applications

- Agriculture
- Food inspection
- Industrial
- Spectral Analysis

SDK Supported

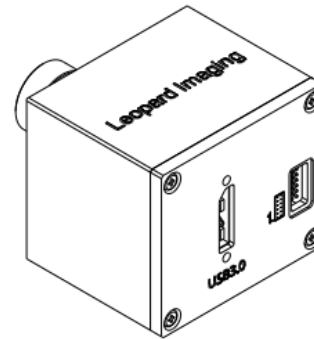
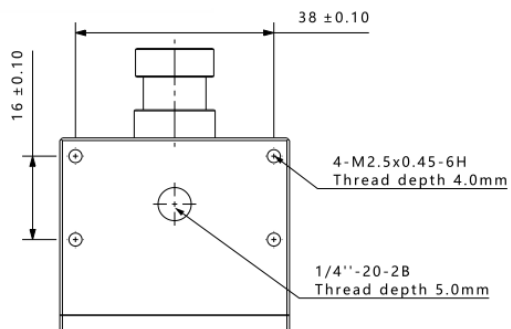
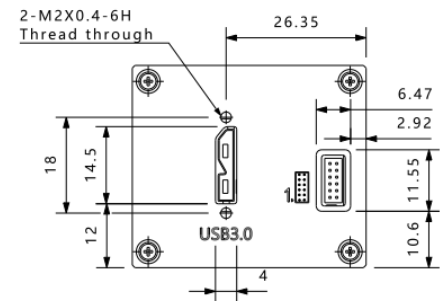
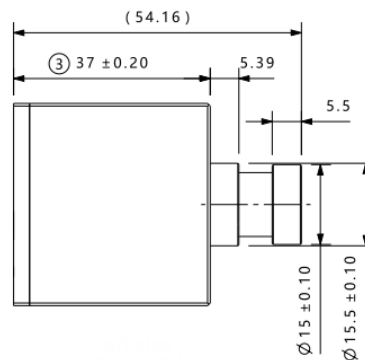
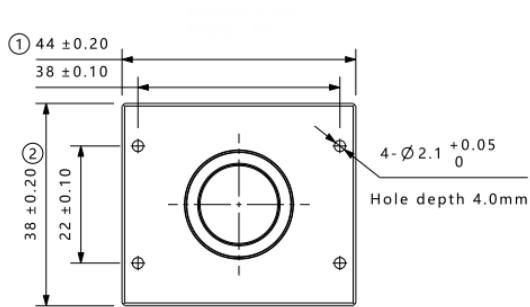
- Camera Tool Source Code in Python API
- Capture & Display
- RAW to wavelength image in range of 450nm to 850nm at 10nm intervals
- Save file as PGM, ENVI, csv format



SEPCIFICATIONS

General Behavior	
Video Resolution @ Frame Rate	1948 x 1097 @ 30fps
Interface (Optical)	
IR Cut Filter (on holder)	Included
Sensor	Sony Diagonal 6.46 mm (Type 1/2.8) CMOS Image Sensor IMX454
Format	1/2.8"
Color / Mono	Color
Active Pixels	1937 (H) x 1097 (V)
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
Power Consumption	247mA @ 5 VDC (1948 x 1097 @ 30 fps)
Weight	
LI-USB30-IMX454-MIPI-092H	~ 85 g
Temp Info (LI-USB30-IMX454-MIPI-092H)	
Operating Temp	-20 °C ~ +70°C
Storage Temp	-30 °C ~ +85 °C
Supported OS	
Windows OS, Standard Linux OS and other OS with full UVC drivers	

DIMENSIONS



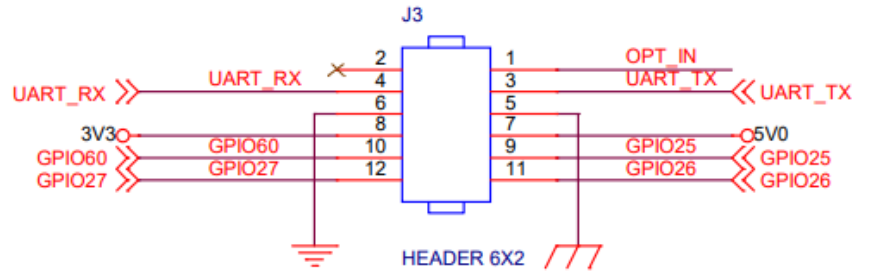
NOTE:

- ⊗ marked are important sizes.
- Tolerances for the unmarked refer to the Tolerance table.
- All materials are compliant with RoHS requirements.
- Unit: mm

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

INTERFACE OF J3

- Part#: PZ3161212PDGFCNN070
- Number of Positions: 12
- Pitch: 1.27mm



PINOUT DETAILS

Pin No	Pin Name	Description	Pin Type	Voltage Level
1	OPT_IN	Isolated Input of optoisolator	Input	Max 30V
2	NC	No connection	-	-
3	UART_TX	Transmitting end of UART of CYUSB3014	Output	3.3V
4	UART_RX	Receiving end of UART of CYUSB3014	Input	3.3V
5	GND	Field Ground of optoisolator	-	-
6	GND	Digital Ground	-	-
7	5V0	5V power	Power	5V
8	3V3	3.3V power	Power	3.3V
9	GPIO25	General-purpose input/output	Bidir	3.3V
10	GPIO60	General-purpose input/output	Bidir	3.3V
11	GPIO26	General-purpose input/output	Bidir	3.3V
12	GPIO27	General-purpose input/output	Bidir	3.3V

- REVISION HISTORY

Revision	Description	Release Date
1.0	First Release.	12 Aug 2025

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