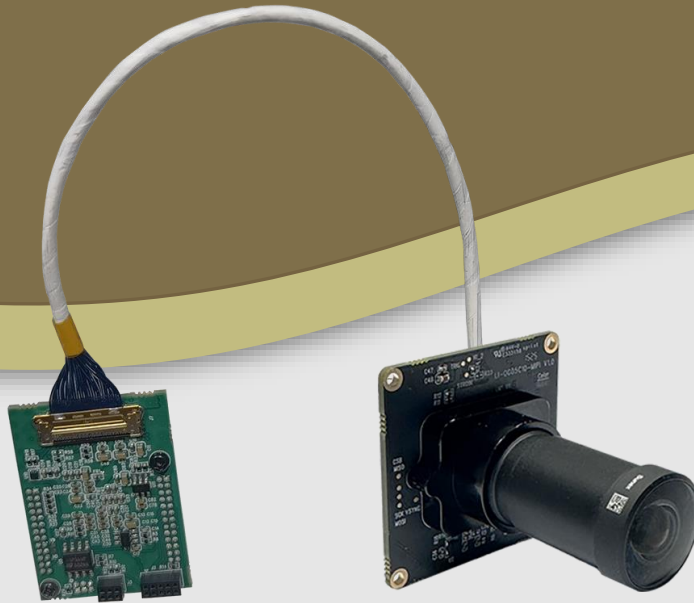




LEOPARD
IMAGING

LI-USB30-OG05C10-MIPI-102H



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Sales:

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Key Features

- USB 3.0 Super Speed support
- RAW data output without compression
- UVC compliant
- Global shutter
- Color camera
- In-built ISP
- Allows customization
- USB + 5 VDC powered device

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

Applications

- Machine Vision Camera
- Logistics Application
- Industrial Bar Code Scanning
- Robotics
- Intelligent transportation system
- Factory automation

Lens Specifications

Focal Length	5.17 $\pm$ 5% mm
Aperture, F/#	1.6 $\pm$ 5%
Field of View (FOV)	102° horizontal
IR Filter	650nm IR CUT Filter

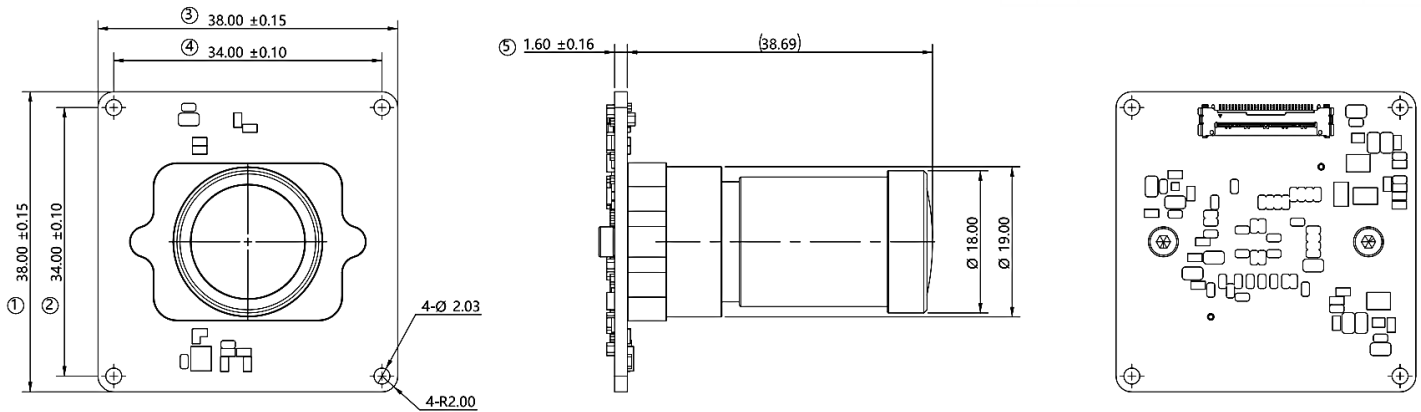
BOM

#	Items	QTY
1	LI-OG05C10-MIPI-102H	1
2	LI-USB30 Main board	1
3	LI-CSLINK-IPX-TESTER	1
4	FAW-1233-02 (200 mm)	1

SEPCIFICATIONS

General Behavior	
Video Resolution @ Frame Rate	2448 x 2048 @ 14.7 fps
Interface (Optical)	
IR Cut Filter (on lens)	650 nm IR cut filter
Sensor	OmniVision 1/1.45" CMOS 5MP Image Sensor OG05C10
Color / Mono	Color
Shutter Type	Global Shutter
Format	1/1.45"
Active Pixels	2464 (H) x 2064 (V)
Pixel Size	3.45 μm x 3.45 μm
Interface (Electrical)	
Interface	USB 3.0
Supply Voltage	USB 3.0 +5 VDC power source
Current Consumption	307 mA @ 5V (2448 x 2048 @ 14.7 fps)
Weight	
LI-OG05C10-MIPI-102H + LI-USB30 Main board + LI-CSLINK-IPX-TESTER (Without cable)	~ 44 g
Temp Info (LI-OG05C10-MIPI-102H)	
Operating Temp	TBD
Storage Temp	TBD
Supported OS	
Windows OS, Standard Linux OS and other OS with full UVC drivers	

DIMENSIONS: LI-OG05C10-MIPI-102H

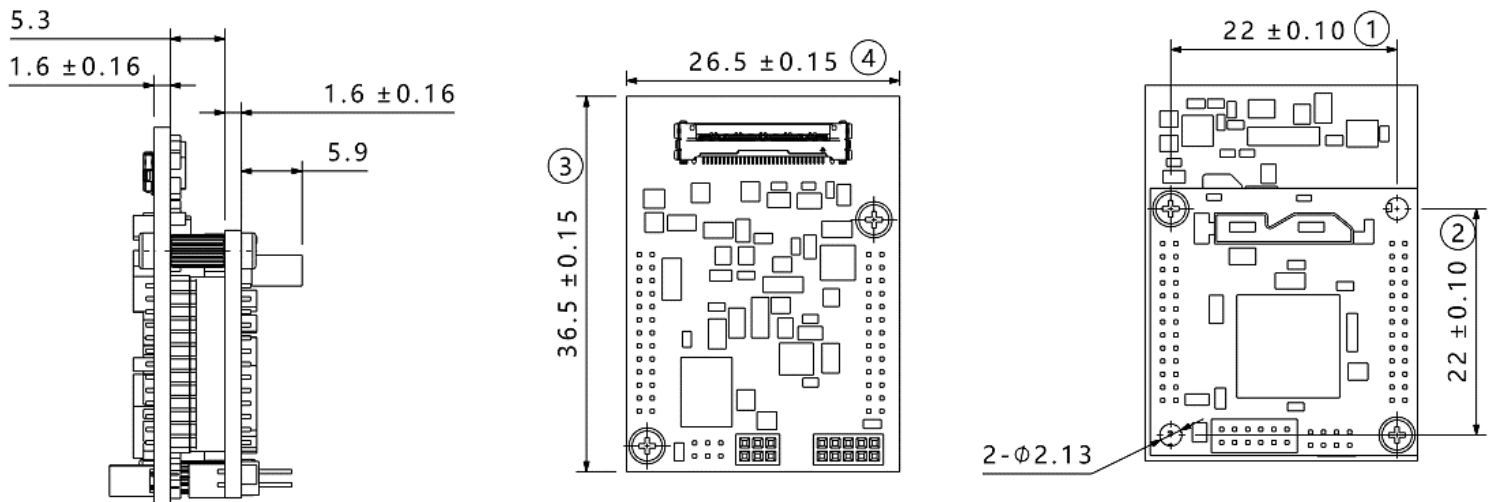


NOTE:

- ⊗ 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 ≤ 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				

DIMENSIONS: LI-USB30 Main Board + LI-CSLINK-IPX-TESTER



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				

NOTE:

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

Unit: mm

- REVISION HISTORY

Revision	Description	Release Date
0.1	Initial draft.	24 Jul 2025

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