



LEOPARD
IMAGING

LI-IMX274-MIPI-D-HOLOSCAN-090H



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INTRODUCTION

The LI-IMX274-MIPI-D-HOLOSCAN-090H is a high-performance 8 Megapixel stereo camera based on two Sony IMX274 image sensors and a MIPI connector. It's compatible with Nvidia holoscan platform and supports 3840 x 2160 (4K) @ 60 fps video output.

SPECIFICATIONS

Sensor	Sony Diagonal 7.20 mm (Type 1/2.5) CMOS Image Sensor IMX274(QTY: 2)
Optical Format	1/2.5"
Resolution	3864 (H) x 2196 (V) (active pixels)
Pixel Size	1.62 x 1.62 μm
Output Format	10-bit / 12-bit RAW data
Baseline	50 MM
HDR (High Dynamic Range)	Supported
Color / Mono	Color sensor
Interface	2x 4-lane MIPI CSI-2
Connector	QTH-060-04-H-D-A
Supported Platform	Nvidia Holoscan Patform
Power Consumption	TBD
Operating Temp	TBD
Storage Temp	TBD
Weight	~ 34 g
Part#	LI-IMX274-MIPI-D-HOLOSCAN-090H

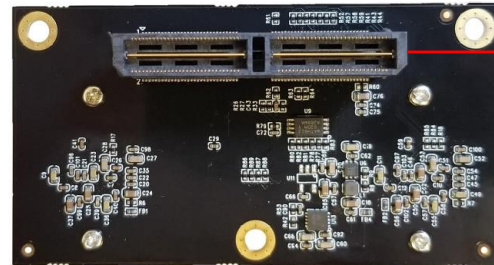
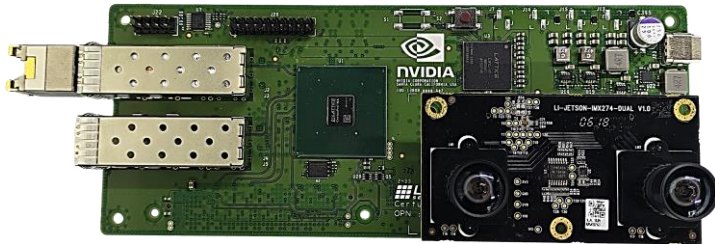
- IoT
- Drone
- Robots

LENS SPECIFICATIONS

Effective Focal Length	3.25 mm $\pm$ 5%
Aperture, F/#	2.60 $\pm$ 5%
Field of View (FOV)	90° horizontal
IR Filter	650 nm IR cut filter
Lens Mount	M12 x P0.5



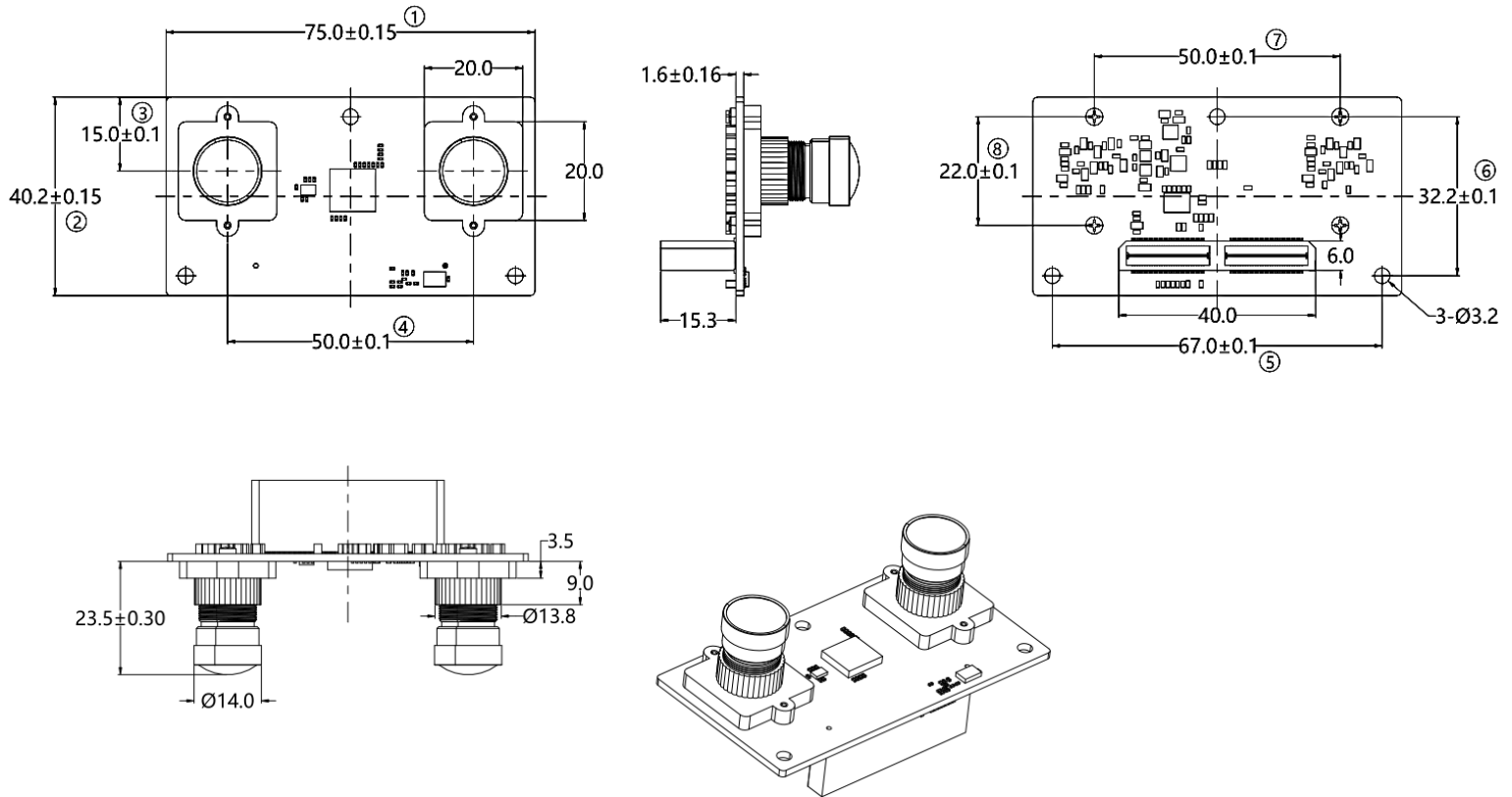
- Supported platform: Nvidia Holoscan



→ To Nvidia Holoscan Platform

Nvidia Holoscan platform is **NOT** included.

DIMENSIONS



NOTE:

- ⊗ marked are important sizes.
- Tolerances for others 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				

● REVISION HISTORY

Revision	Description	Release Date
0.1	Initial draft.	08 Jan 2025
0.2	Updated LENS SPECIFICATIONS.	25 Aug 2025

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