



LEOPARD
IMAGING

LI-IMX675-MIPI-076H



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INTRODUCTION

The LI-IMX675-MIPI-076H is a MIPI CSI-2 camera with Sony STARVIS2 diagonal 6.53 mm (Type 1/2.8) CMOS solid-state color sensor IMX675 which has low power consumption and achieves high sensitivity, low dark current and no smear. This camera outputs 10-bit / 12-bit RAW data.

SPECIFICATIONS

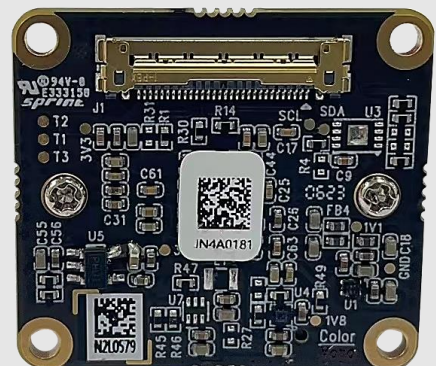
Sensor	Sony STARVIS2 Diagonal 6.53 mm CMOS Image Sensor IMX675
Optical Format	1/2.8"
Resolution	2608 (H) x 1960 (V) (active pixels)
Pixel Size	2.0 x 2.0 μ m
Output Format	10-bit / 12-bit RAW
Maximum Frame Rate	12 bit: 60 fps @ all-pixel scan mode 10 bit: 80 fps @ all-pixel scan mode
ISP	Not included
Color / Mono	Color
HDR (High Dynamic Range)	Supported
Interface	4-lane MIPI CSI-2
Power Consumption	195 mA @ 5 VDC (2608 x 1964 @ 25 fps)
Operating Temp	-30°C ~ +85°C
Storage Temp	-40°C ~ +85°C
Weight	~ 14 g
Part#	LI-IMX675-MIPI-076H

APPLICATIONS

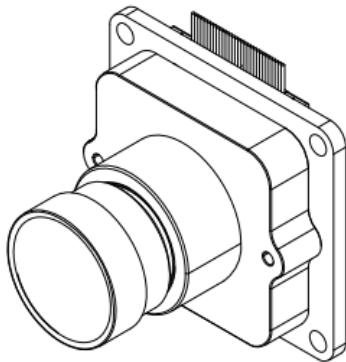
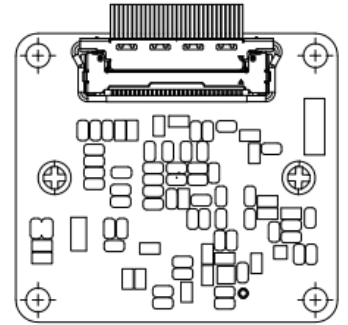
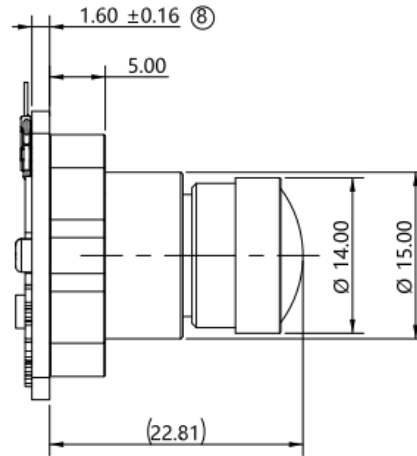
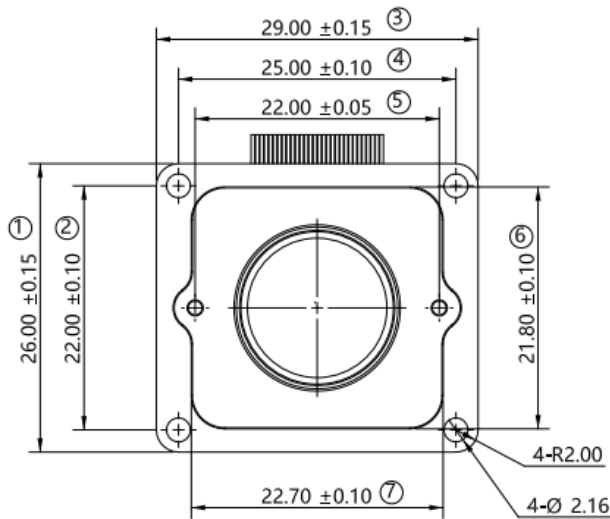
- IoT
- Drone
- Robots

LENS SPECIFICATIONS

Focal Length	3.25 mm $\pm$ 5%
Aperture, F/#	2.60 $\pm$ 5%
Field of View (FOV)	76° horizontal
TV Distortion	< -0.3%
Relative Illumination	> 72.98%
IR Filter	650 nm IR cut filter
Lens Mount	M12 x P0.5



DIMENSIONS



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				

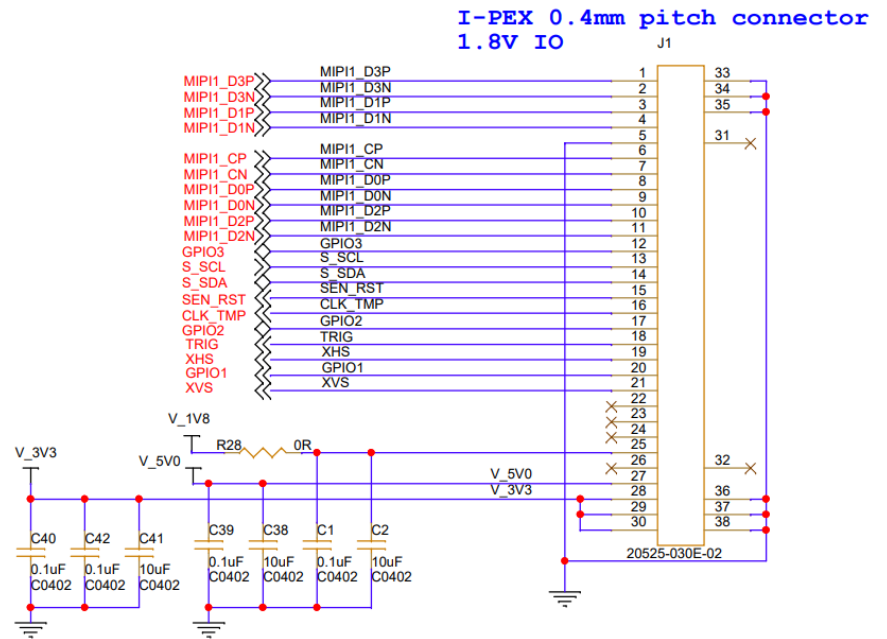
NOTE:

- ⊗ marked are important sizes.
- Other unmarked tolerances – refer to the Tolerance table.

Unit: mm

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: 0x34 (8-bit)
- External Power Supply: 1.8V, 3.3V, 5.0V
- 3.3VA and 1.1V are generated from board



• REVISION HISTORY

Revision	Description	Release Date
1.0	First release.	15 May 2023
1.1	Updated interface external power supply info.	18 Feb 2025

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