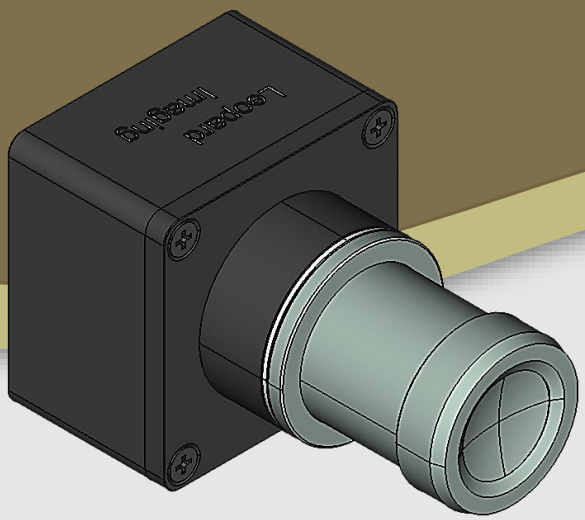
LEOPARD IMAGING

LI-IMX728-GM2B-xxxH-xx-AA



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INTRODUCTION

The LI-IMX728-GM2B-xxxH-xx-AA is equipped with Sony diagonal 9.30 mm 8.39MP CMOS RGGB sensor IMX728 and ADI GMSL2 serializer MAX96717G. This camera outputs 3857 x 2177 RAW data.

SPECIFICATIONS

Maximum Frame Rate	30 fps @ 3840 × 2160
Output Format	20-bit / 16-bit / 12-bit / 10-bit RAW data
Sensor	Diagonal 9.30 mm 8.39MP CMOS RGGB Sensor IMX728
Optical Format	1/1.72"
Resolution	3857 (H) x 2177 (V) (active pixels)
Pixel Size	2.1 x 2.1 µm
Color / Mono	Color sensor
HDR (High Dynamic Range)	Supported
LFM (LED Flicker Mitigation)	Supported
Lens	FOV H 30˚ / 70˚ / 120H
Serializer	ADI MAX96717G
Power Supply Range	9 ~ 19 VDC
Connector	FAKRA Z TYPE
IP Rating	030H: IP69K 070H: TBD 120H: TBD
Power Consumption	Approx. 122 mA @ 12 VDC (3840 x 2160 @ 19 fps)
Operating Temp	-40°C ~ +85°C
Storage Temp	-40°C ~ +85°C
Weight	TBD
Part#	LI-IMX728-GM2B-030H-SF-AA
	LI-IMX728-GM2B-070H-SS-AA
	LI-IMX728-GM2B-120H-SF-AA

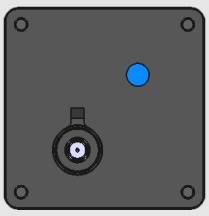
APPLICATIONS

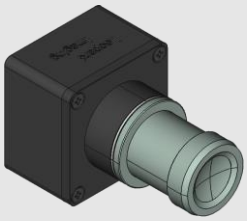
- Automotive
  - High Resolution Front Viewing
  - Machine Vision
  - Autonomous Driving
  - Assisted Driving
  - Digital Video Recording

CABLE CONNECTOR

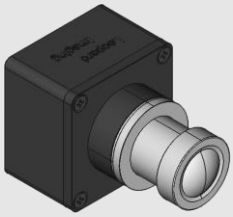
- Housing Connector: FAKRA Z Type
- Cable Length: 3 meters



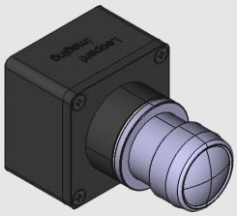




030H

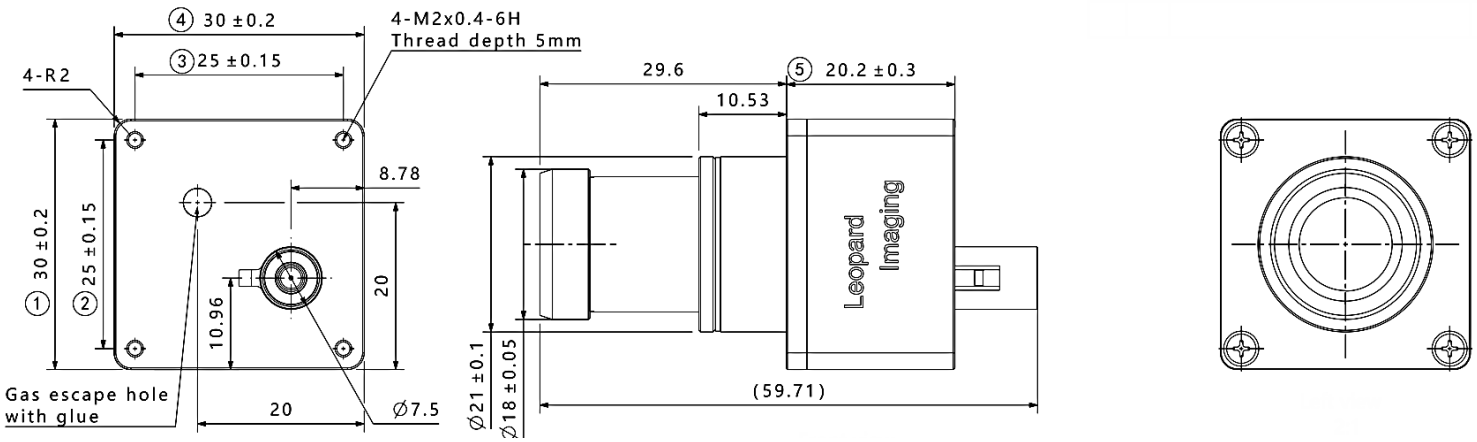


070H



120H

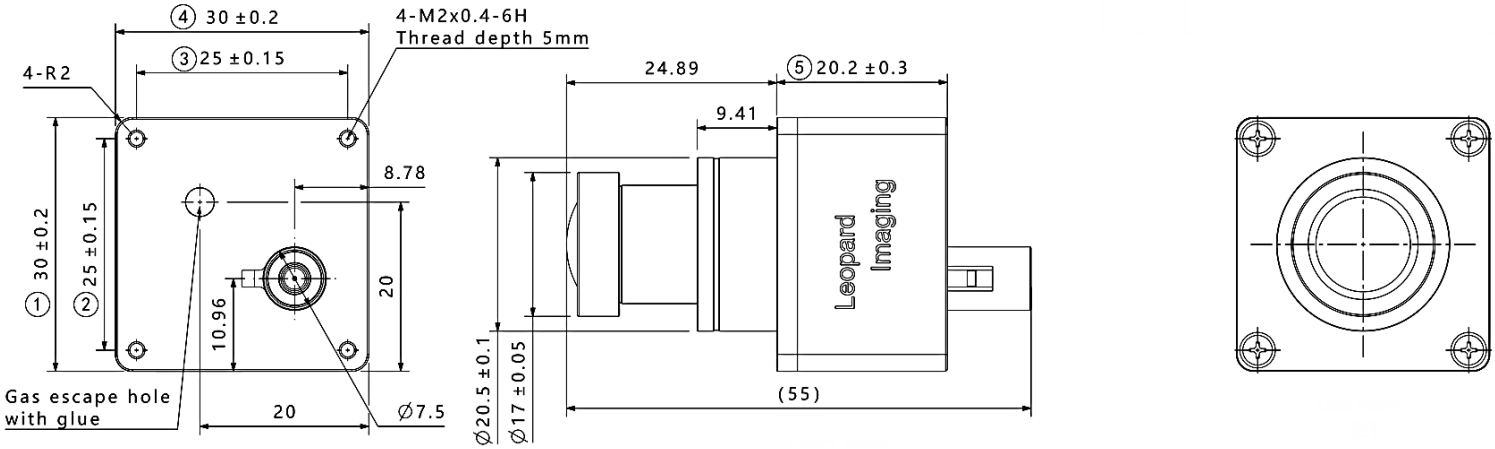
DIMENSIONS: LI-IMX728-GM2B-030H-SF-AA



NOTE:

- ⊗ marked are important sizes.
- Other unmarked tolerances are ± 0.3 mm.
- Unit: mm

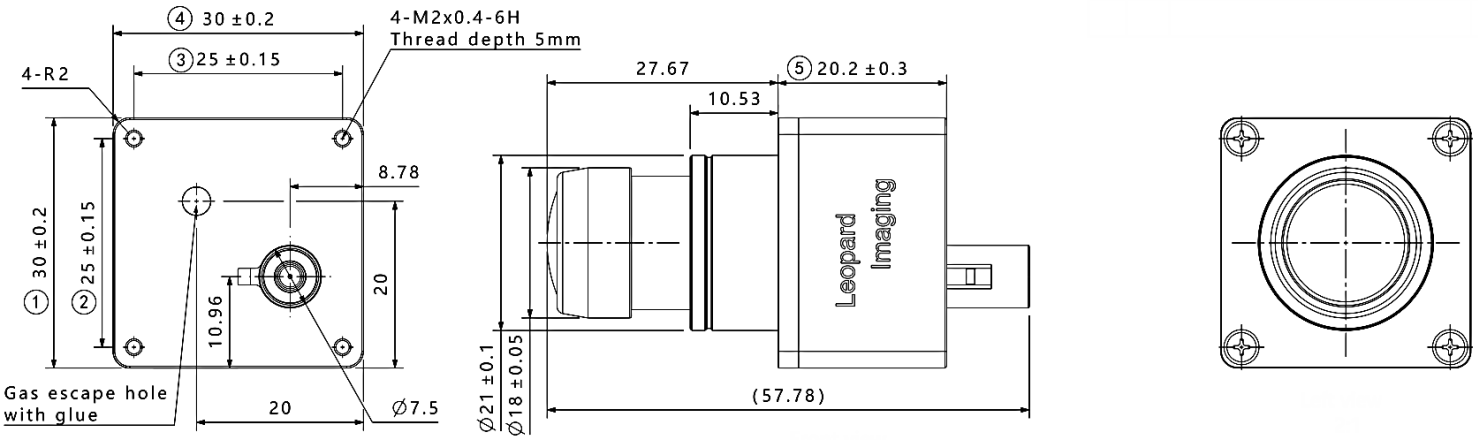
DIMENSIONS: LI-IMX728-GM2B-070H-SS-AA



NOTE:

- ⊗ marked are important sizes.
- Other unmarked tolerances are ± 0.3 mm.
- Unit: mm

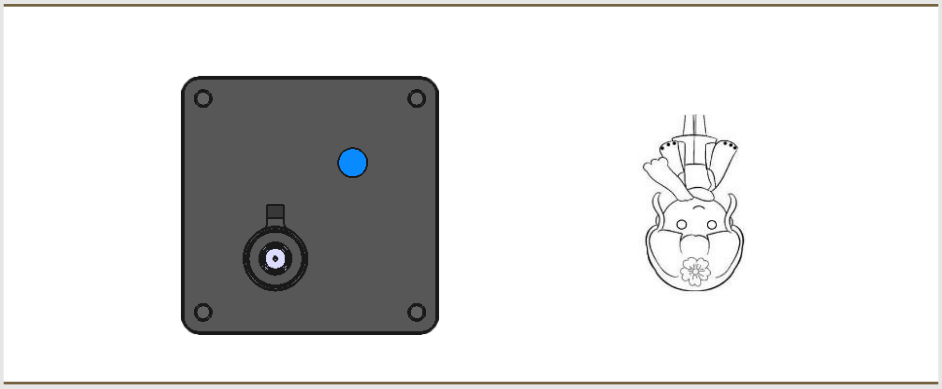
DIMENSIONS: LI-IMX728-GM2B-120H-SF-AA



NOTE:

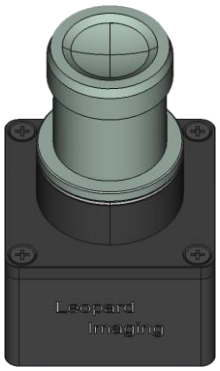
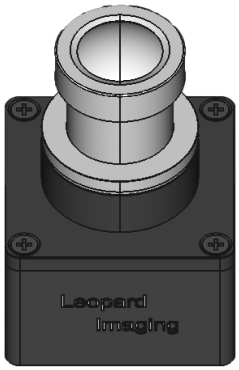
- ⊗ marked are important sizes.
- Other unmarked tolerances are ± 0.3 mm.
- Unit: mm

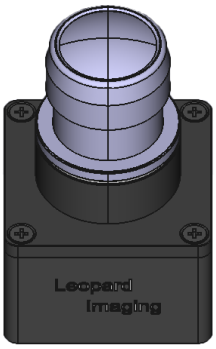
IMAGE ORIENTATION



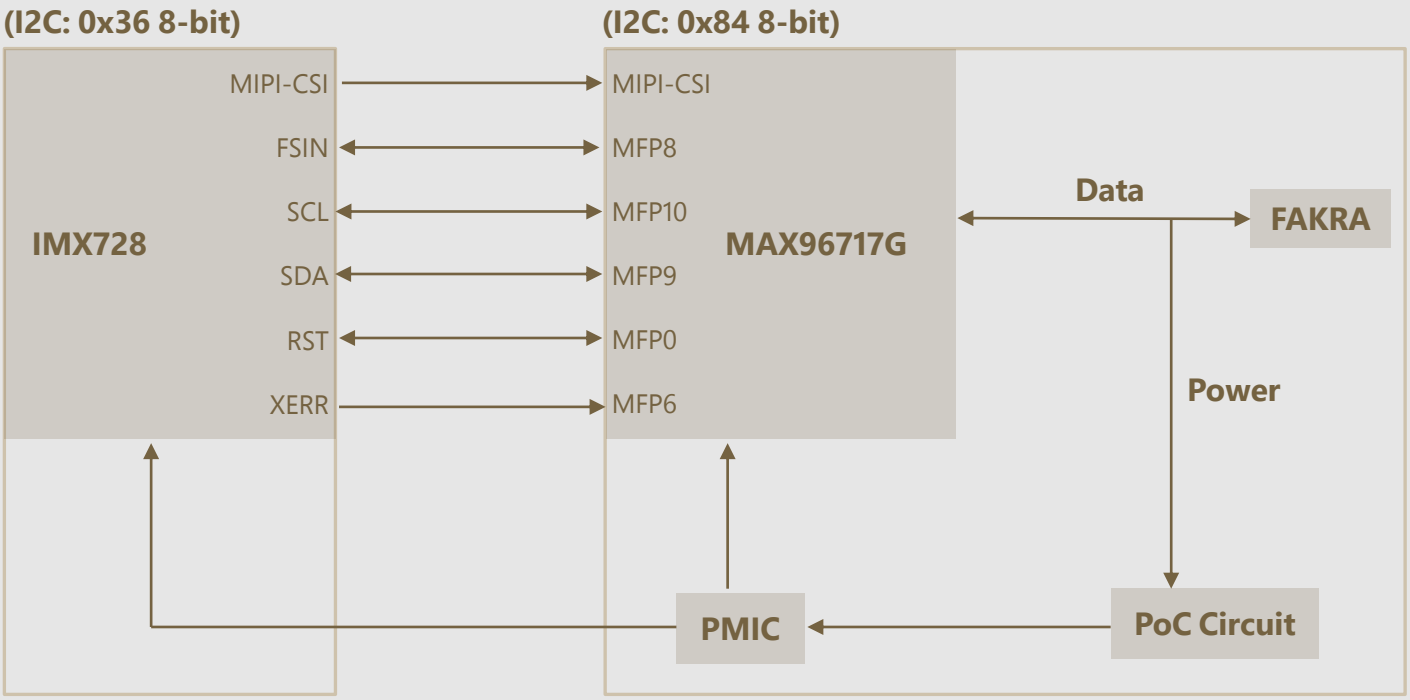
ORDERING INFORMATION

NOTE:
xxxH - 030H: FOV H 30˚ xxxH - 070H: FOV H 70˚ xxxH - 120H: FOV H 120˚

LI-IMX728-GM2B-030H-SF-AA	LI-IMX728-GM2B-070H-SS-AA
	
Lens EFL: 15.34 ± 2.5% mm	Lens EFL: 6.6 ± 3% mm
Aperture, F/#: 1.6 ± 5%	Aperture, F/#: 1.6 ± 5%
Field of View (FOV): 30˚ (H) / 17˚ (V) / 34.4˚ (D)	Field of View (FOV): 70˚ (H) / 39.3˚ (V) / 80.1˚ (D)
IR Filter: 650 nm IR cut filter	IR Filter: 650 nm IR cut filter
Mount: Active Alignment (AA)	Mount: Active Alignment (AA)

LI-IMX728-GM2B-120H-SF-AA

Lens EFL: 4.01 ± 3% mm
Aperture, F/#: 1.6 ± 5%
Field of View (FOV): 120˚ (H) / 65˚ (V) / 140˚ (D)
IR Filter: 650 nm IR cut filter
Mount: Active Alignment (AA)

SYSTEM BLOCK DIAGRAM

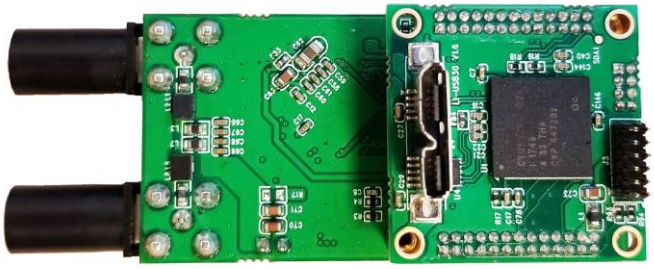


USB3.0 CAMERA KIT

LI-GMSL2-USB



Top View



Bottom View

LI-IMX728-GM2B-xxxH-xx-AA can connect to LI-GMSL2-USB as a USB 3.0 camera.

Part#: **LI-USB30-IMX728-GM2B-xxxH-xx-AA**

SPECIFICATIONS

- USB 3.0 Super Speed support
- UVC compliant
- Allows customization
- 12 VDC Power Supply for camera
- Weight: TBD
- Single Coax Cable transmits up to 12 meters PoC (Power over Cable)
- Resolution: 3840 x 2160 @ 19 fps
- Power consumption: Approx. 122 mA @ 12 VDC
- Compatible with Windows, Linux OS and other OS which have UVC drivers



12 VDC power supply for camera

BOM

#	Items	QTY
1	LI-IMX728-GM2B-xxxH-xx-AA	1
2	LI-GMSL2-USB	1
3	3-Meter Fakra Cable	1
4	12 VDC Power Supply	1
5	USB3.0 Cable	1

SDK SUPPORTED

- Camera Tool Source Code in C#
- Capture & Display
- Register Access Function

REVISION HISTORY

Revision	Description	Release Date
0.1	Initial draft.	22 May 2025
0.2	Updated Maximum Frame Rate and 030H IP.	29 Sep 2026
0.3	Corrected the I2C address of MAX96717G.	03 Nov 2026

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