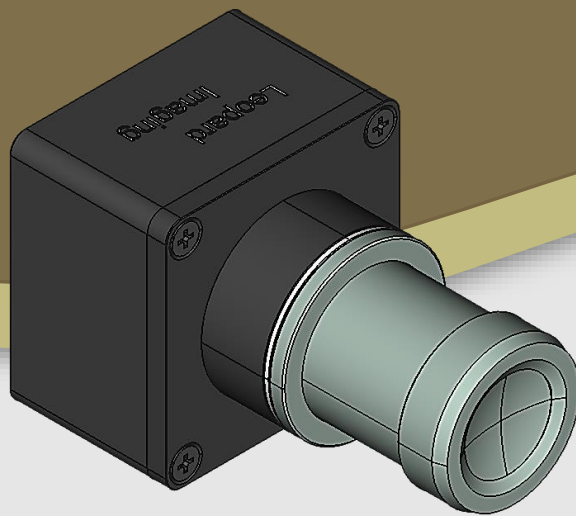




LEOPARD
IMAGING

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 Maxim GMSL2 serializer MAX96717. This camera outputs 3857 x 2177 RAW data.

SPECIFICATIONS

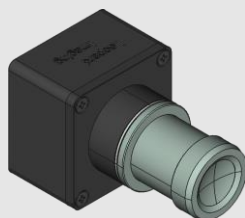
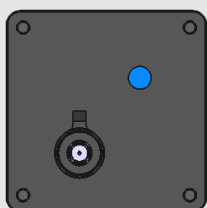
Sensor	Diagonal 9.30 mm 8.39MP CMOS RGGB Sensor IMX728
Optical Format	1/1.72"
Resolution	3857 (H) x 2177 (V) (active pixels)
Pixel Size	2.1 x 2.1 μ m
Color / Mono	Color sensor
Output Format	20-bit / 16-bit / 12-bit / 10-bit RAW data
Maximum Frame Rate	45 fps @ 3857 x 2177
HDR (High Dynamic Range)	Supported
LFM (LED Flicker Mitigation)	Supported
Lens	FOV H 30° / 70° / 120H
Serializer	Maxim MAX96717
Power Supply Range	9 ~ 19 VDC
Connector	FAKRA Z TYPE
IP Rating	030H: TBD 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

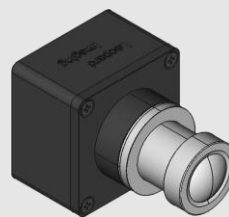
- Automotive
 - ◆ High Resolution Front Viewing
 - ◆ Machine Vision
 - ◆ Autonomous Driving
 - ◆ Assisted Driving
 - ◆ Digital Video Recording

CABLE CONNECTOR

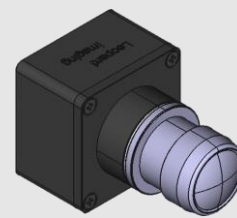
- Housing Connector: FAKRA Z Type
- Cable Length: 3 meters



030H

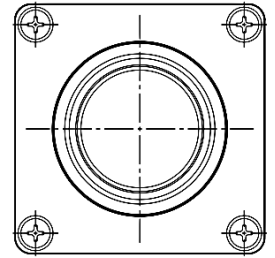
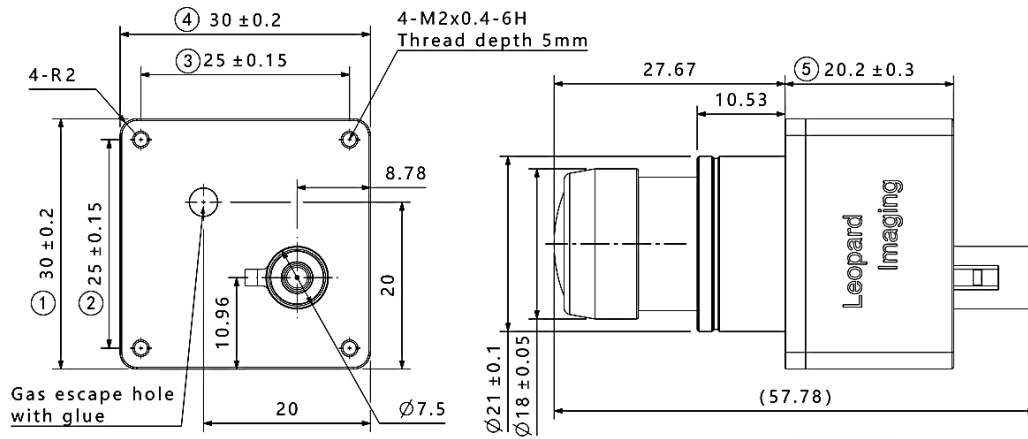


070H



120H

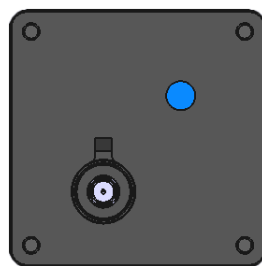
DIMENSIONS: LI-IMX728-GM2B-120H-SF-AA



NOTE:

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

IMAGE ORIENTATION

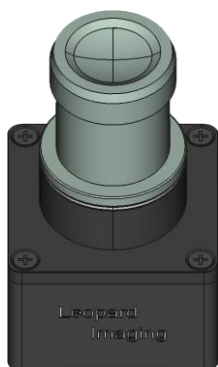


ORDERING INFORMATION

NOTE:

xxxH - 030H: FOV H 30° xxxH - 070H: FOV H 70° xxxH - 120H: FOV H 120°

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



Lens EFL: $15.34 \pm 2.5\%$ mm

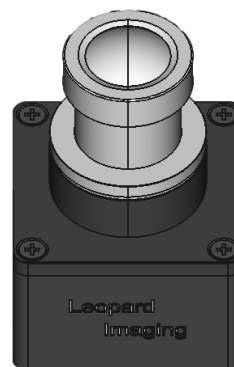
Aperture, F/#: $1.6 \pm 5\%$

Field of View (FOV): 30° (H) / 17° (V) / 34.4° (D)

IR Filter: 650 nm IR cut filter

Mount: Active Alignment (AA)

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



Lens EFL: $6.6 \pm 3\%$ mm

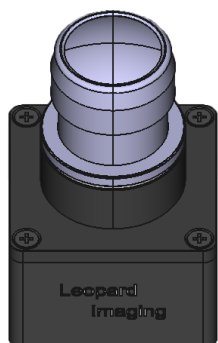
Aperture, F/#: $1.6 \pm 5\%$

Field of View (FOV): 70° (H) / 39.3° (V) / 80.1° (D)

IR Filter: 650 nm IR cut filter

Mount: Active Alignment (AA)

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



Lens EFL: $4.01 \pm 3\%$ mm

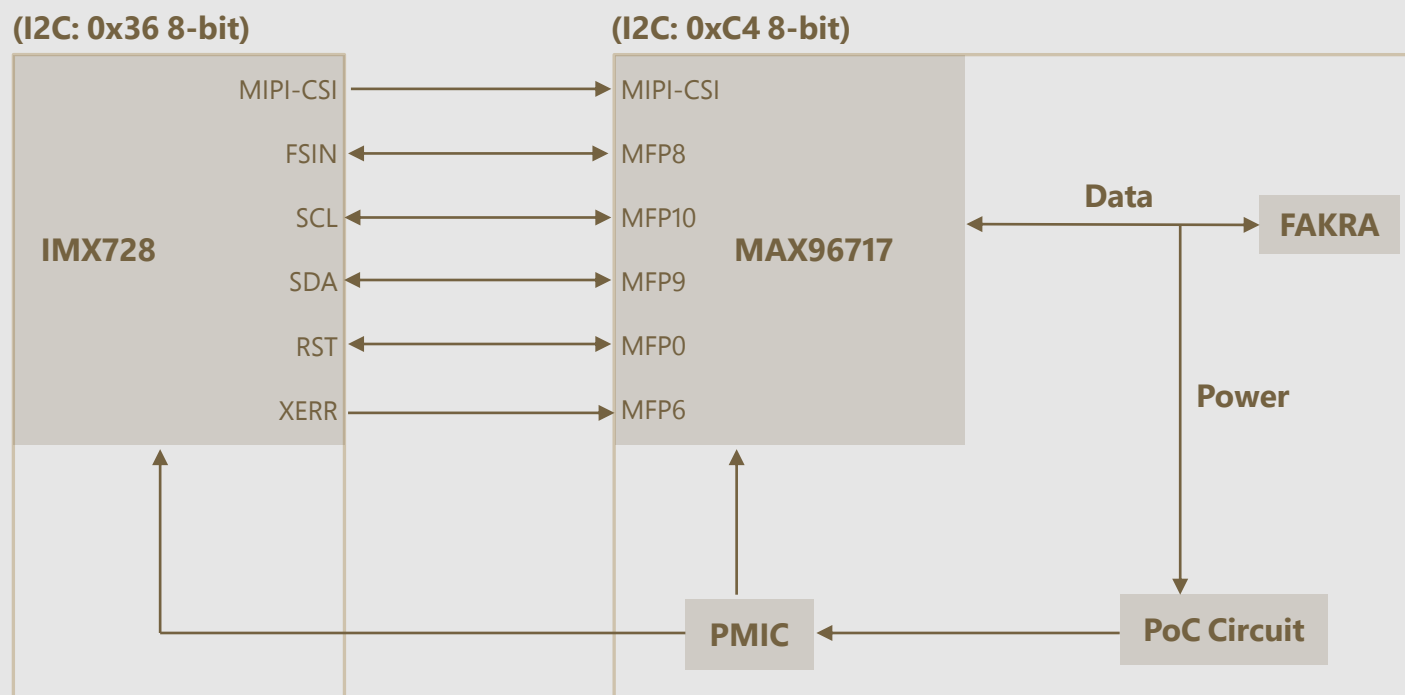
Aperture, F/#: $1.6 \pm 5\%$

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

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

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