LEOPARD IMAGING

# LI-IMX728-GM2B-xxxH




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## INTRODUCTION

The LI-IMX728-GM2B-xxxH 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

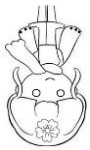
| | |
|---|---|
| Maximum Frame Rate | 30 fps @ 3840 x 2160 |
| Output Format | 20-bit / 16-bit / 12-bit / 10-bit RAW data |
| Sensor | Diagonal 9.30 mm 8.39MP CMOS RGGB Sensor IMX728 |
| Optical Format | 1/1.72" |
| Resolution | 3857 (H) x 2177 (V) (active pixels) |
| Pixel Size | 2.1 x 2.1 µm |
| Color / Mono | Color sensor |
| HDR (High Dynamic Range) | Supported |
| LFM (LED Flicker Mitigation) | Supported |
| Lens | FOV H 30˚ / 70˚ |
| Serializer | ADI MAX96717G |
| Power Supply Range | 9 ~ 19 VDC |
| Connector | FAKRA Z TYPE |
| IP Rating | 030H: TBD<br>070H: IP67 |
| Power Consumption | Approx. 122 mA @ 12 VDC<br>(3840 x 2160 @ 19 fps) |
| Operating Temp | -40°C ~ +85°C |
| Storage Temp | -40°C ~ +85°C |
| Weight | ~ 50 g |
| Part# | LI-IMX728-GM2B-xxxH |

## APPLICATIONS

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

## IMAGE ORIENTATION





## CABLE CONNECTOR

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





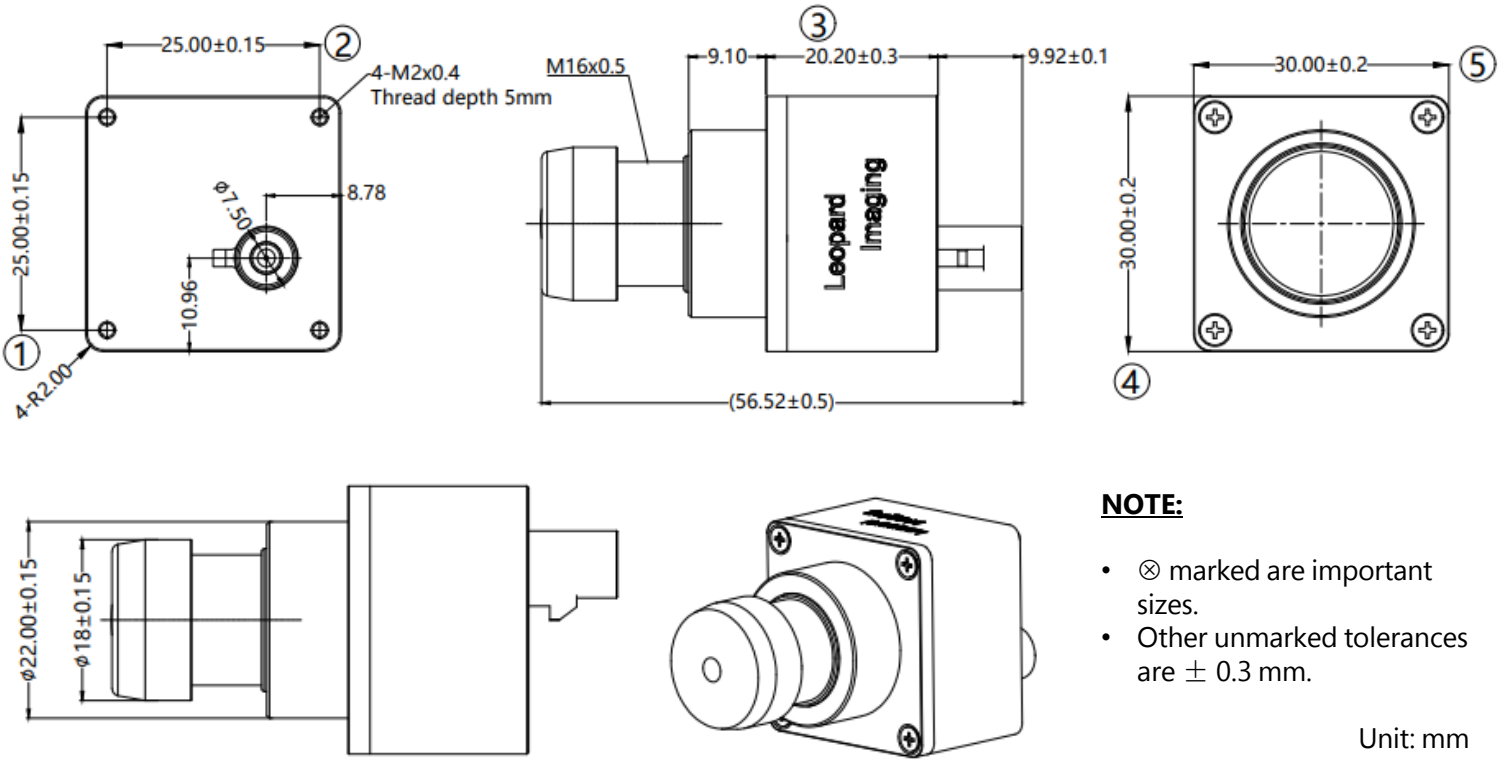


030H



070H

## DIMENSIONS: LI-IMX728-GM2B-030H

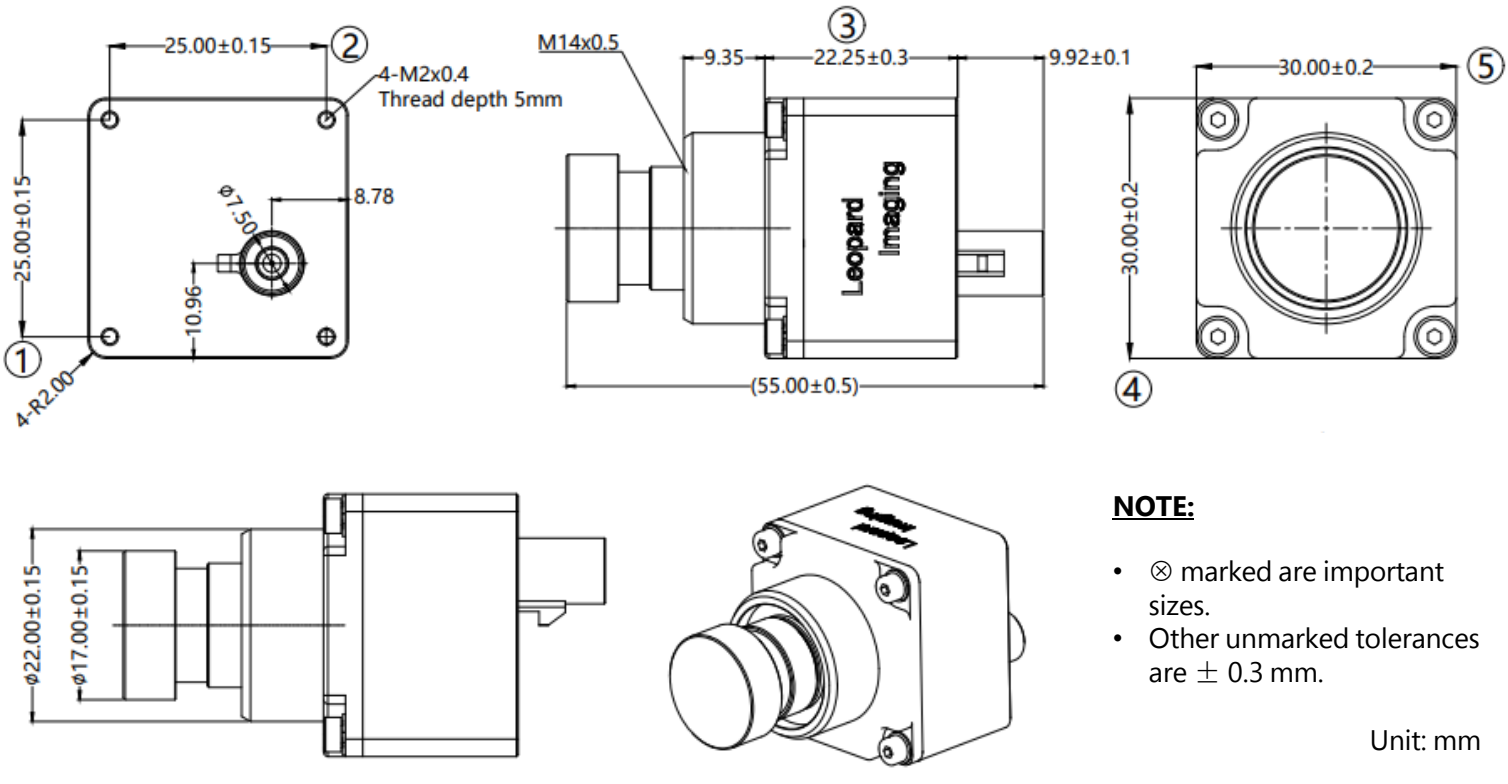



**NOTE:**

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

Unit: mm

## DIMENSIONS: LI-IMX728-GM2B-070H




**NOTE:**

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

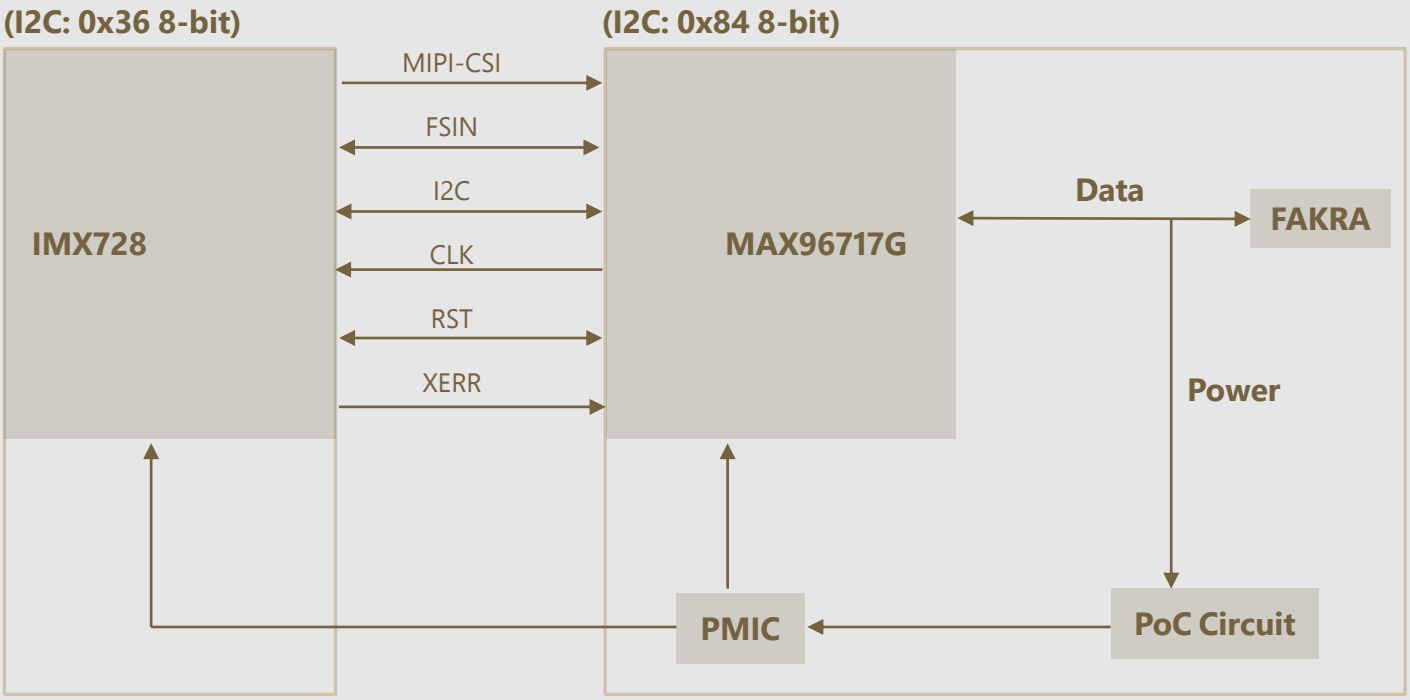
Unit: mm

# ORDERING INFORMATION

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

| LI-IMX728-GM2B-030H | LI-IMX728-GM2B-070H |
|---|---|
|   |   |
| Lens EFL: 15.3 ± 0.15 mm | Lens EFL: 6.7 ± 0.15 mm |
| Aperture, F/#: 1.65 ± 0.15 | Aperture, F/#: 1.65 ± 0.15 |
| Field of View (FOV): 30.0˚ horizontal | Field of View (FOV): 70.0˚ horizontal |
| IR Filter: 660 nm IR cut filter | IR Filter: 660 nm IR cut filter |
| Mount: M16 | Mount: M14 |

# PINOUT CONNECTIONS

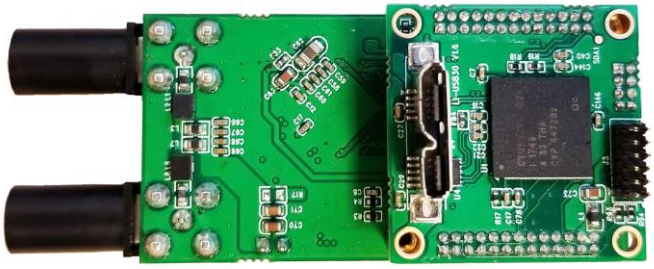


# USB3.0 CAMERA KIT

LI-GMSL2-USB



Top View



Bottom View

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

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

## SPECIFICATIONS

- USB 3.0 Super Speed support
- UVC compliant
- Allows customization
- 12 VDC Power Supply for camera
- Weight: ~ 117 g
- 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 | 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. | 09 Oct 2024 |
| 0.2 | Deleted 3-Meter fakra cable P/N, | 25 Nov 2024 |
| 0.3 | Updated Maximum Frame Rate, | 29 Sep 2026 |
| 0.4 | Corrected the I2C address of MAX96717G. | 03 Nov 2026 |

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