



LEOPARD
IMAGING

LI-ISX028-GM2B-xxxH



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INTRODUCTION

The LI-ISX028-GM2B-xxxH is equipped with Sony diagonal 9.30 mm 8.39MP CMOS color sensor ISX028 and Maxim GMSL2 serializer MAX96717. This camera outputs RAW data.

SPECIFICATIONS

Sensor	Diagonal 9.30 mm 8.39MP CMOS Sensor ISX028
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	8-bit YUV / 10-bit YUV / 8-bit RAW / 10-bit RAW
Maximum Frame Rate	45 fps @ 3857 x 2177
HDR (High Dynamic Range)	Supported
LFM (LED Flicker Mitigation)	Supported
Lens	FOV H 30° / 70° / 120°
Serializer	Maxim MAX96717
Connector	FAKRA Z TYPE
Power Supply Range	9 ~ 19 VDC
IP Rating	030H: TBD 070H: IP67 120H: IP69K
Power Consumption	~ 114 mA @ 12 VDC (3840 x 2160 @ 15 fps)
Operating Temp	TBD
Storage Temp	TBD
Weight	~ 50 g

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



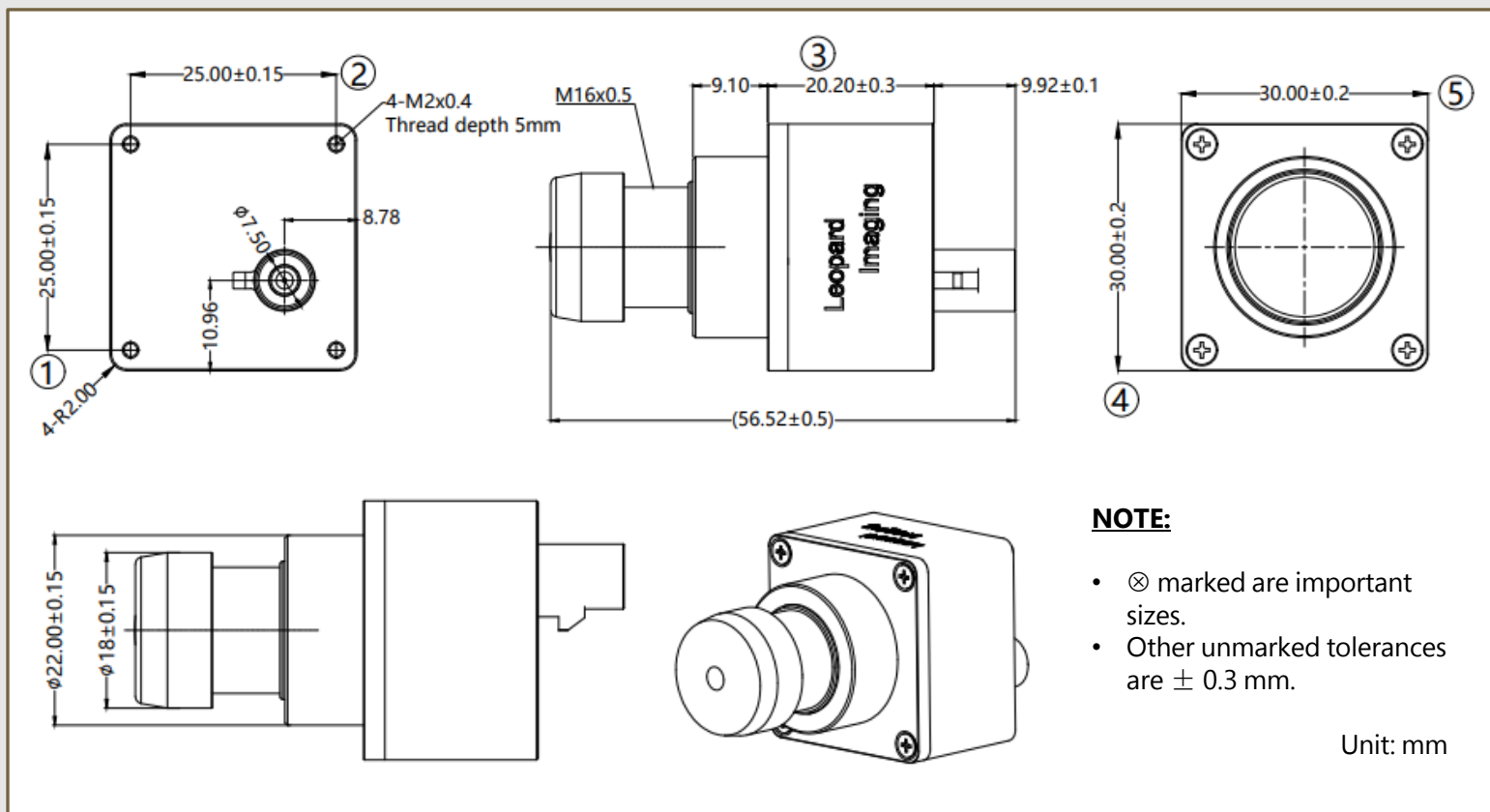
070H



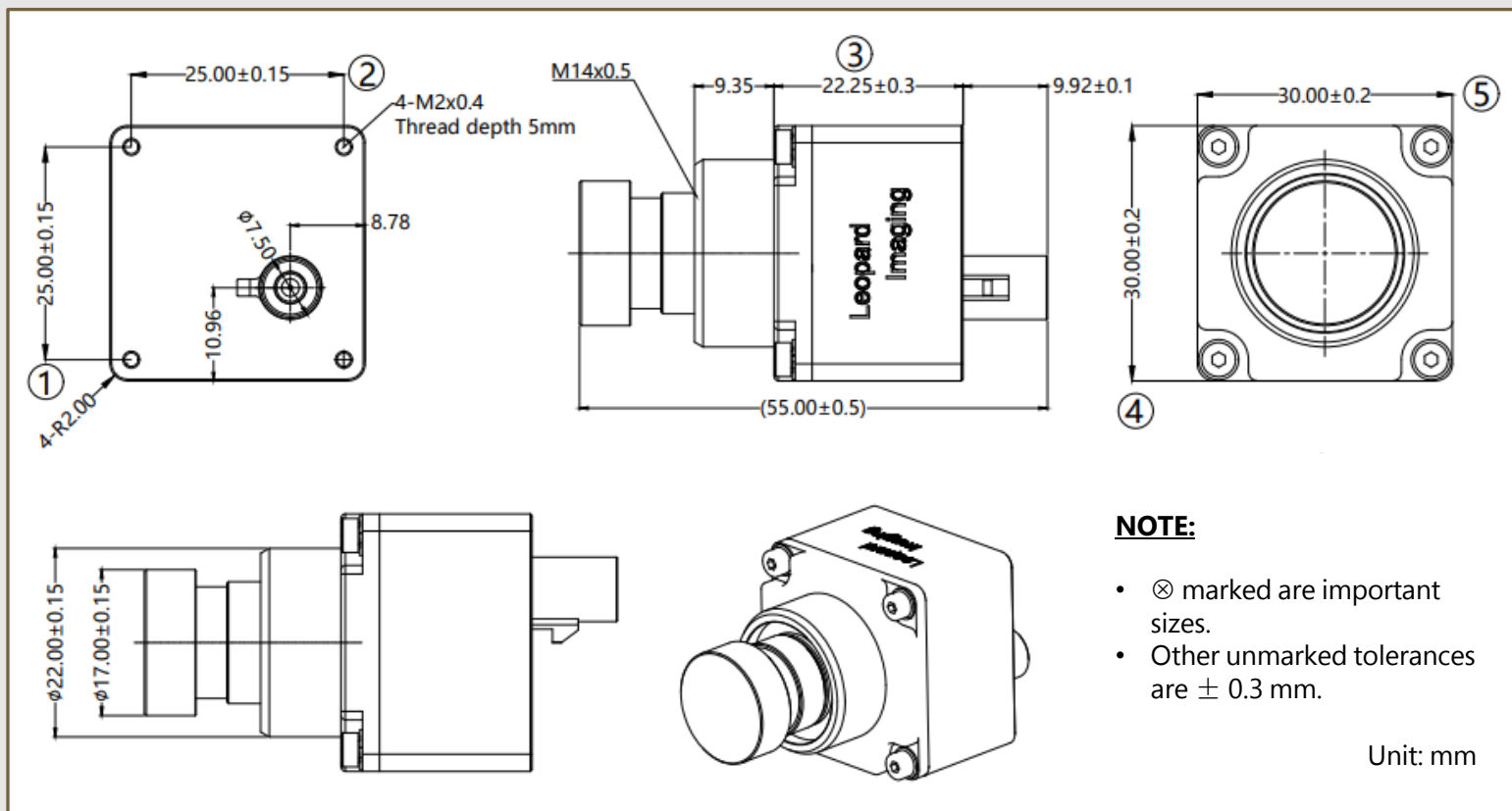
120H



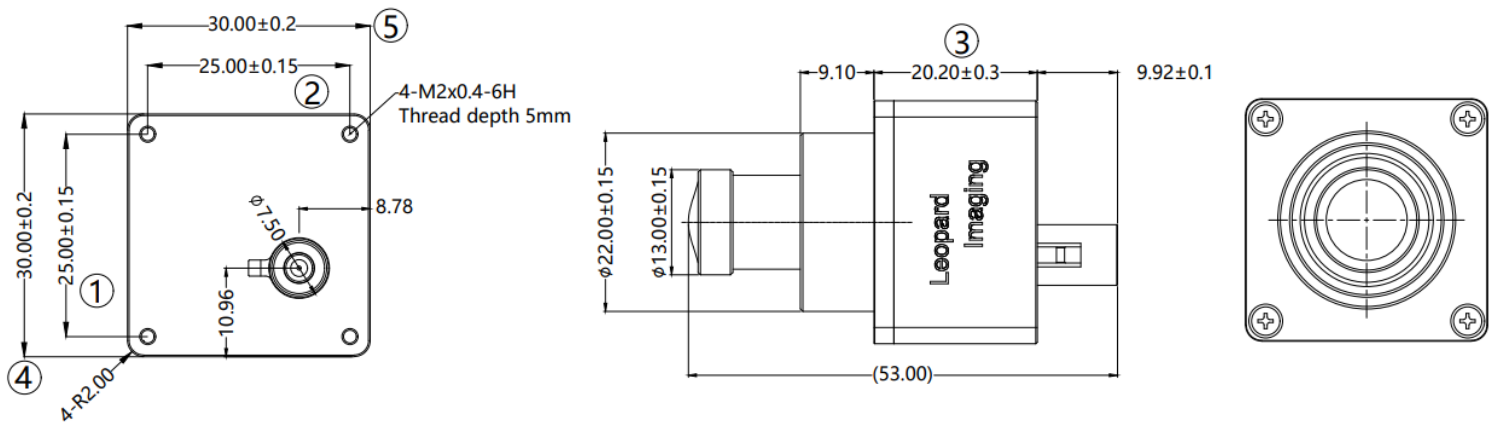
DIMENSIONS: LI-ISX028-GM2B-030H



DIMENSIONS: LI-ISX028-GM2B-070H



DIMENSIONS: LI-ISX028-GM2B-120H



NOTE:

- $\otimes$ marked are important sizes.
- Other unmarked tolerances are ± 0.3 mm.
- Unit: mm

IMAGE ORIENTATION



ORDERING INFORMATION

NOTE:

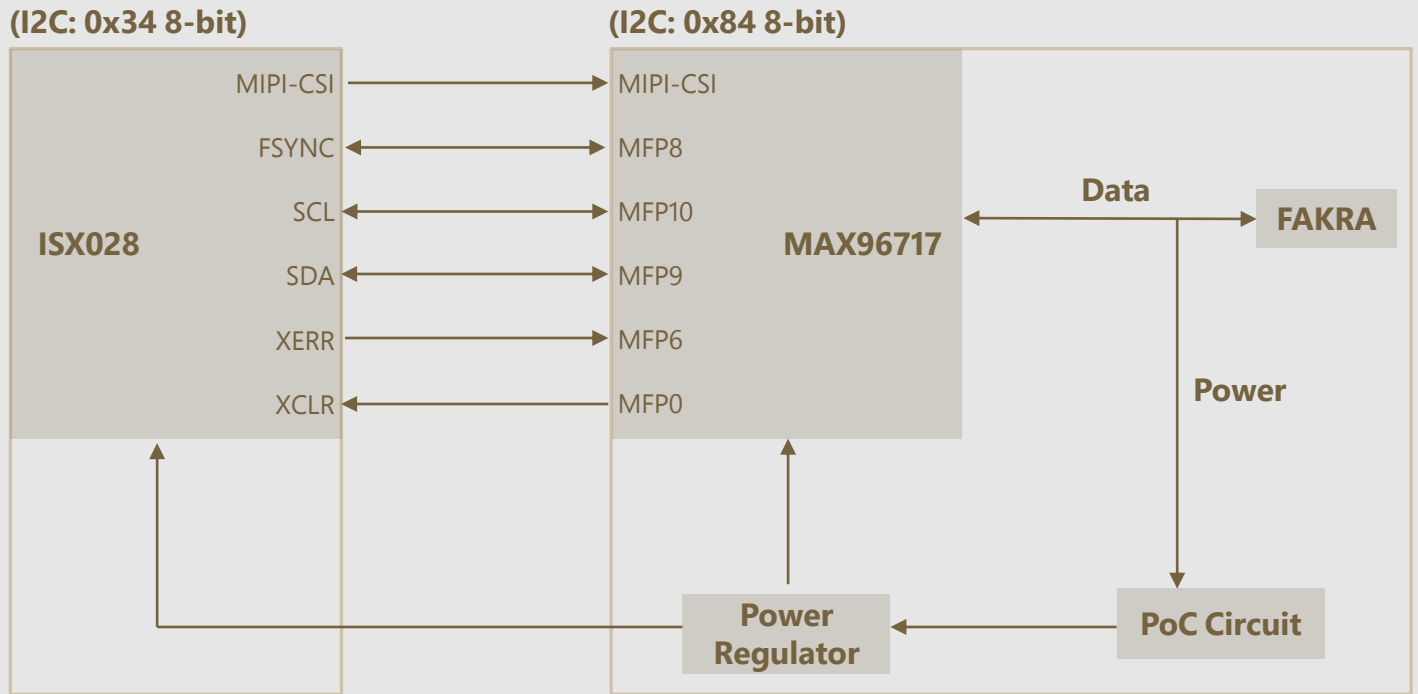
xxxH - 030H: FOV H 30° xxxH - 070H: FOV H 70° xxxH - 120H: FOV H 120°

LI-ISX028-GM2B-030H	LI-ISX028-GM2B-070H
	
Lens EFL: 15.3 mm	Lens EFL: 6.7 ± 0.15 mm
Aperture, F/#: 1.65	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

LI-ISX028-GM2B-120H

Lens EFL: 5.1 mm ± 2%
Aperture, F/#: 1.6 ± 5%
Field of View (FOV): 120° horizontal
IR Filter: 700 nm IR cut filter
Mount: M16

SYSTEM BLOCK DIAGRAM



USB3.0 CAMERA KIT

LI-GMSL2-USB



Top View



Bottom View

LI-ISX028-GM2B-xxxH can connect to LI-GMSL2-USB as a USB 3.0 camera.

Part#: **LI-USB30-ISX028-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 @ 15 fps
- Power consumption : TBD
- Compatible with Windows, Linux OS and other OS which have UVC drivers

BOM

#	Items	QTY
1	LI-ISX028-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.	28 Sep 2025

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