



LI-IMX728-9295-xxxH



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INTRODUCTION

The LI-IMX728-9295-xxxH is equipped with Sony diagonal 9.30 mm 8.39MP CMOS RGGB sensor IMX728 and Maxim GMSL2 serializer MAX9295A/B. 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° / 120°
Serializer	Maxim MAX9295A/B
Power Supply Range	9 ~ 19 VDC
Connector	FAKRA Z TYPE
IP Rating	TBD
Power Consumption	129 mA @ 12 VDC (3840 x 2160 @ 19.7 fps)
Operating Temp	TBD
Storage Temp	TBD
Weight	~ 50 g
Part#	LI-IMX728-9295-xxxH

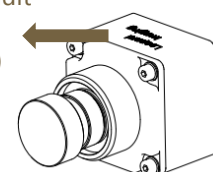
APPLICATIONS

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

DEFAULT IMAGING DIRECTION

- The logo "Leopard Imaging" is on the TOP.

Top (Default Imaging Direction)

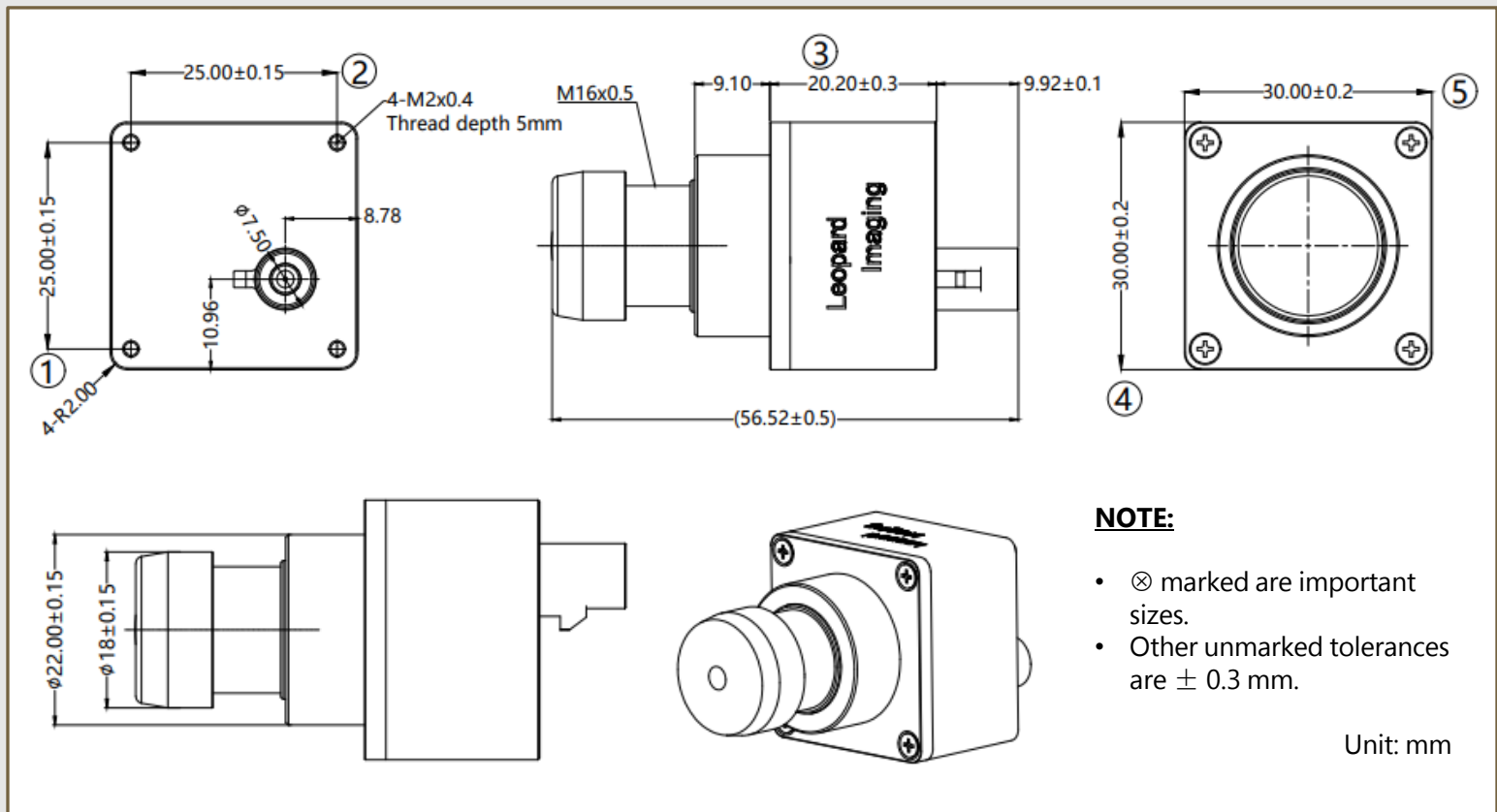


CABLE CONNECTOR

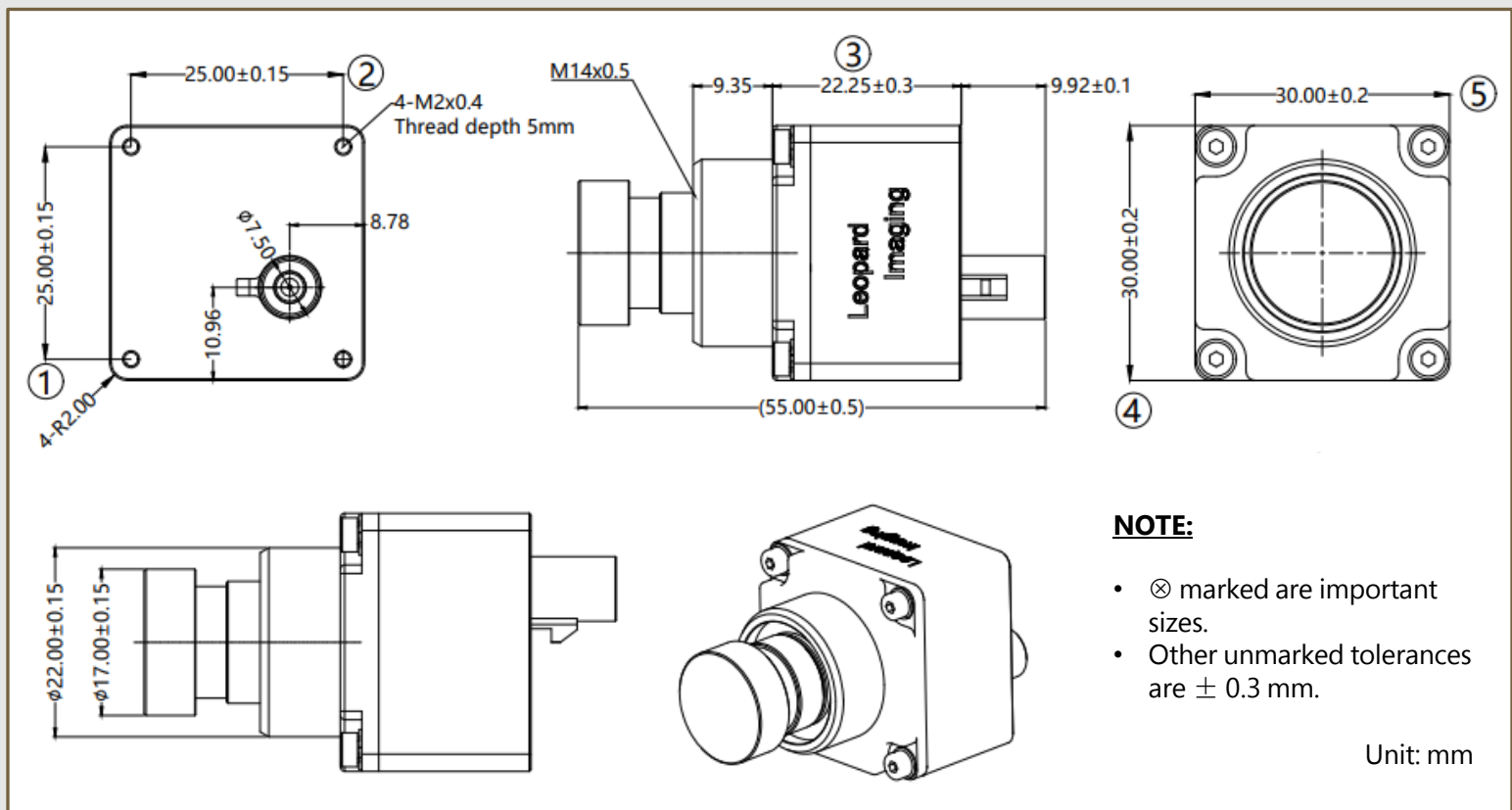
- Housing Connector: FAKRA Z Type
- Cable Length: 3 meters
- Cable Part#: FAK-SMZSMZ-3M



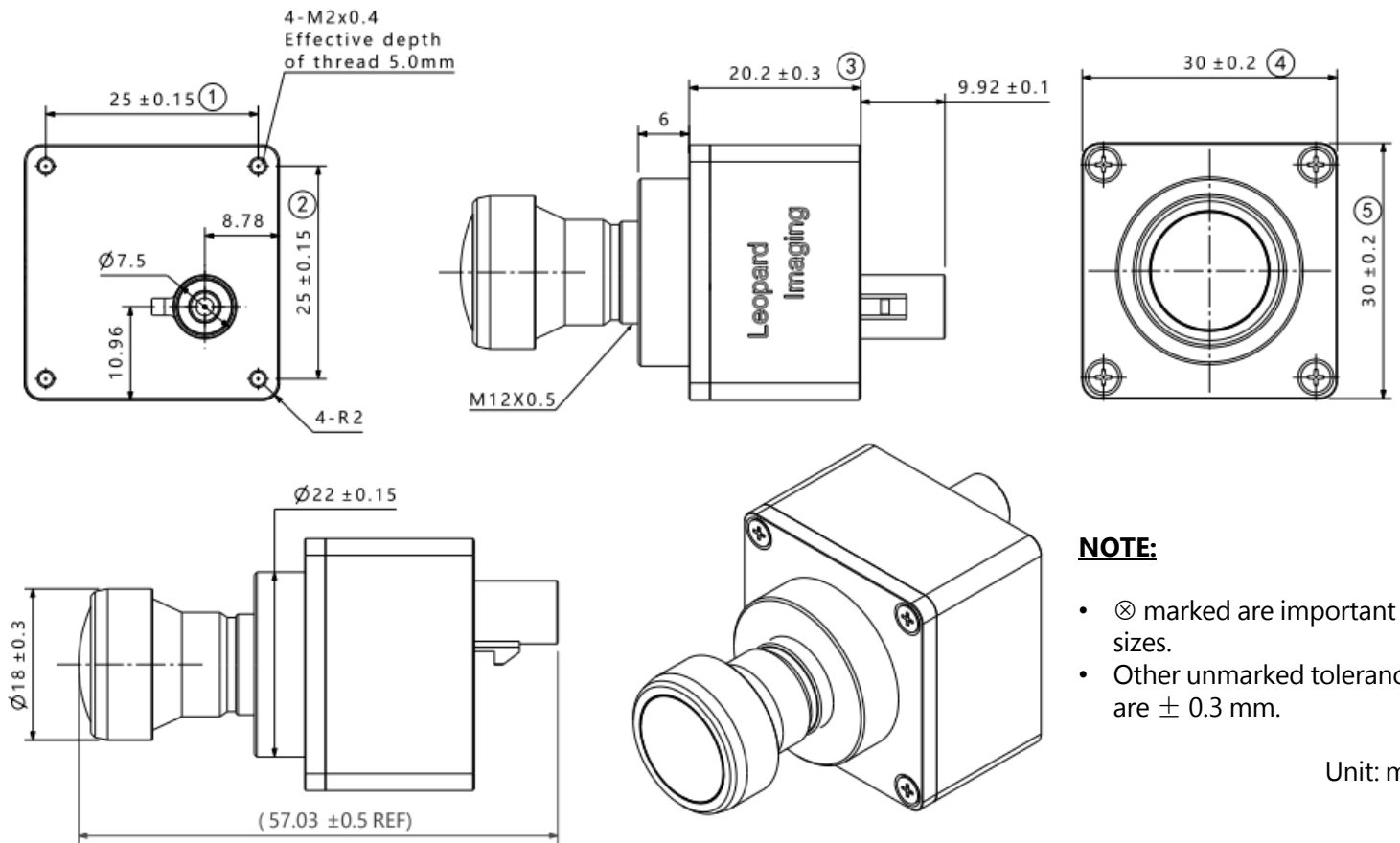
DIMENSIONS: LI-IMX728-9295-030H



DIMENSIONS: LI-IMX728-9295-070H



DIMENSIONS: LI-IMX728-9295-120H



NOTE:

- $\otimes$ marked are important sizes.
- Other unmarked tolerances are $\pm 0.3 \text{ mm}$.

Unit: mm

ORDERING INFORMATION

NOTE:

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

LI-IMX728-9295-030H



Lens EFL: 15.3 mm $\pm$ 0.15

Aperture, F/#: 1.65 $\pm$ 0.15

Field of View (FOV): 30.0° horizontal

IR Filter: 660 nm IR cut filter

Mount: M16

LI-IMX728-9295-070H



Lens EFL: 6.7 mm

Aperture, F/#: 1.65

Field of View (FOV): 70.0° horizontal

IR Filter: 660 nm IR cut filter

Mount: M14

LI-IMX728-9295-120H



Lens EFL: 3.9 mm $\pm$ 2%

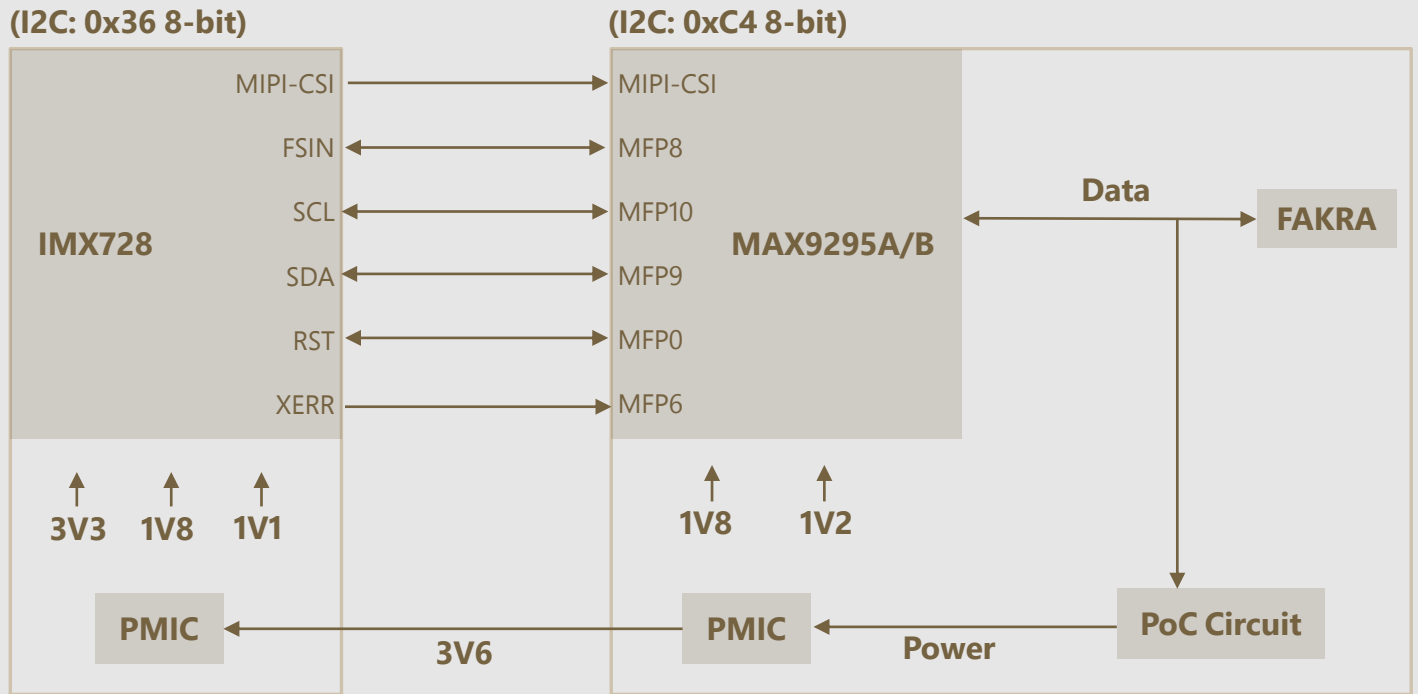
Aperture, F/#: 1.6 $\pm$ 5%

Field of View (FOV): 121.2° horizontal

IR Filter: 650 nm IR cut filter

Mount: M12

PINOUT CONNECTIONS

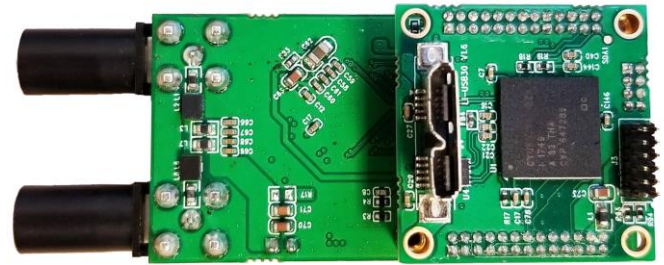


USB3.0 CAMERA KIT

LI-GMSL2-USB



Top View



Bottom View

LI-IMX728-9295-xxxH can connect to LI-GMSL2-USB as a USB 3.0 camera.

Part#: **LI-USB30-IMX728-9295-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 @ 19.7 fps
- Power consumption: 129 mA @ 12 VDC
- Compatible with Windows, Linux OS and other OS which have UVC drivers

BOM

#	Items	QTY
1	LI-IMX728-9295-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

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