



**LEOPARD**  
IMAGING

# LI-IMX728-96717-120H-DSL



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## INTRODUCTION

The LI-IMX728-96717-120H-DSL is equipped with Sony diagonal 9.30 mm 8.39MP CMOS RGGB sensor IMX728 and Maxim GMSL2 serializer MAX96717. This camera outputs RAW image data.

## SPECIFICATIONS

Sensor	Sony 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 $\mu$ m
Color / Mono	Color sensor
Output Format	20-bit / 16-bit / 12-bit / 10-bit RAW data
Frame Rate	30 fps @ 3856 x 2176
HDR (High Dynamic Range)	Supported
LFM (LED Flicker Mitigation)	Supported
Serializer	Maxim MAX96717G
Power Supply Range	9 ~ 19 VDC
Connector	FAKRA Z TYPE
Waterproof	No
Power Consumption	121 mA @ 12 VDC (3856 x 2176 @ 15 fps)
Operating Temp	-40°C ~ +85°C
Storage Temp	-40°C ~ +85°C
Weight	~ 43 g
Part#	LI-IMX728-96717-120H-DSL

## APPLICATIONS

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

## IMAGE ORIENTATION

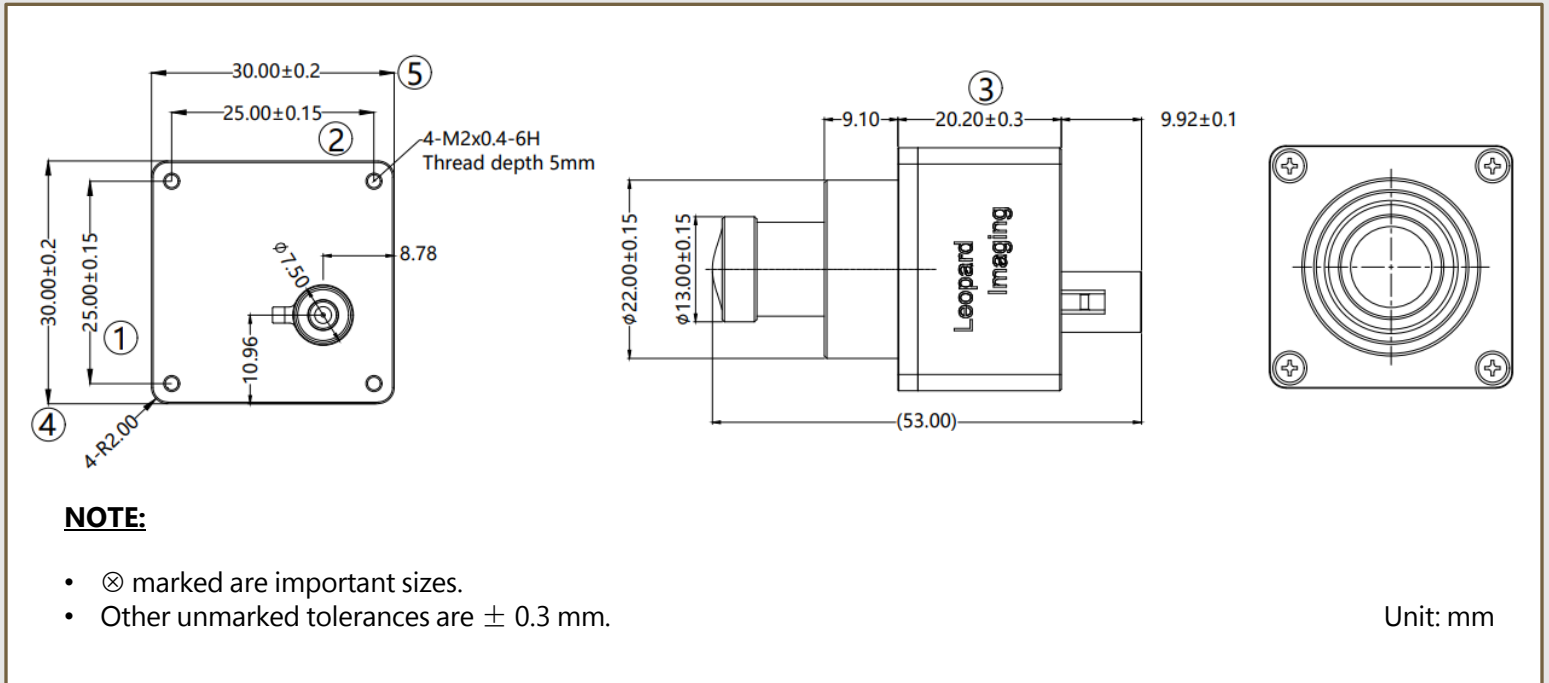


## LENS SPECIFICATIONS

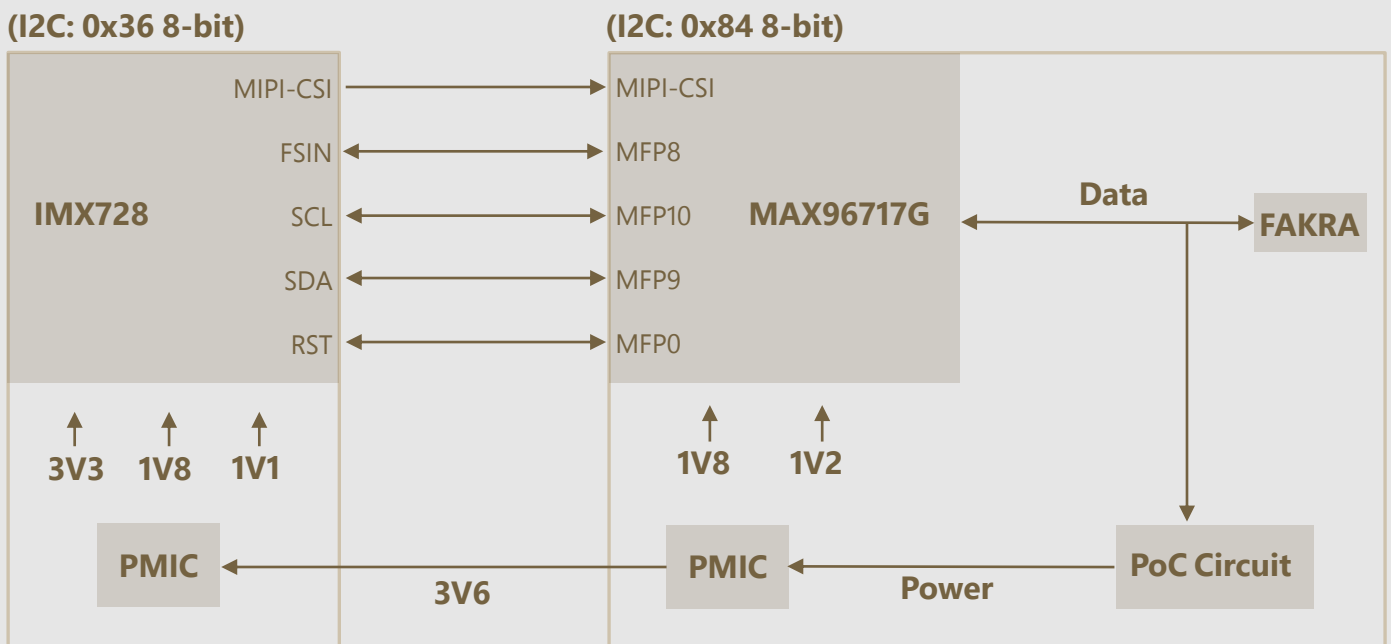
Focal Length	5.1 mm $\pm$ 2%
Aperture, F/#	1.6 $\pm$ 5%
Field of View (FOV)	120° horizontal
IR Cut Filter	700 nm IR cut filter
Lens Mount	M16 x P0.5



## DIMENSIONS



## PINOUT CONNECTIONS



## USB3.0 CAMERA KIT

LI-GMSL2-USB



Top View



Bottom View

LI-IMX728-96717-120H-DSL can connect to LI-GMSL2-USB as a USB 3.0 camera.

Part#: **LI-USB30-IMX728-96717-120H-DSL**

### SPECIFICATIONS

- USB 3.0 Super Speed support
- UVC compliant
- Allows customization
- 12 VDC Power Supply for camera
- Weight: ~ 110 g
- Single Coax Cable transmits up to 12 meters PoC (Power over Cable)
- Resolution: 3856 x 2176 @ 15 fps
- Power consumption: 121 mA @ 12 VDC
- Compatible with Windows, Linux OS and other OS which have UVC drivers

### BOM

#	Items	QTY
1	LI-IMX728-96717-120H-DSL	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
1.0	First release.	29 May 2023
1.1	Updated image direction.	27 Dec 2023

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