



LEOPARD
IMAGING

LI-IMX728-APHY-120H



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INTRODUCTION

The LI-IMX728-APHY-120H is equipped with Sony diagonal 9.30 mm 8.39MP CMOS RGGB sensor IMX728 and Valens A-PHY serializer VA7031. This camera outputs RAW image data.

SPECIFICATIONS

Sensor	Sony Diagonal 9.30 mm 8.39MP CMOS RGGB Sensor IMX728 (ES3 version)
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
Frame Rate	30 fps @ 3856 x 2176
HDR (High Dynamic Range)	Supported
LFM (LED Flicker Mitigation)	Supported
Serializer	Valens A-PHY serializer VA7031
Power Supply Range	9 ~ 19 VDC
Connector	FAKRA Z TYPE
Waterproof	No
Power Consumption	TBD
Operating Temp	TBD
Storage Temp	TBD
Weight	~ 43 g
Part#	LI-IMX728-APHY-120H

APPLICATIONS

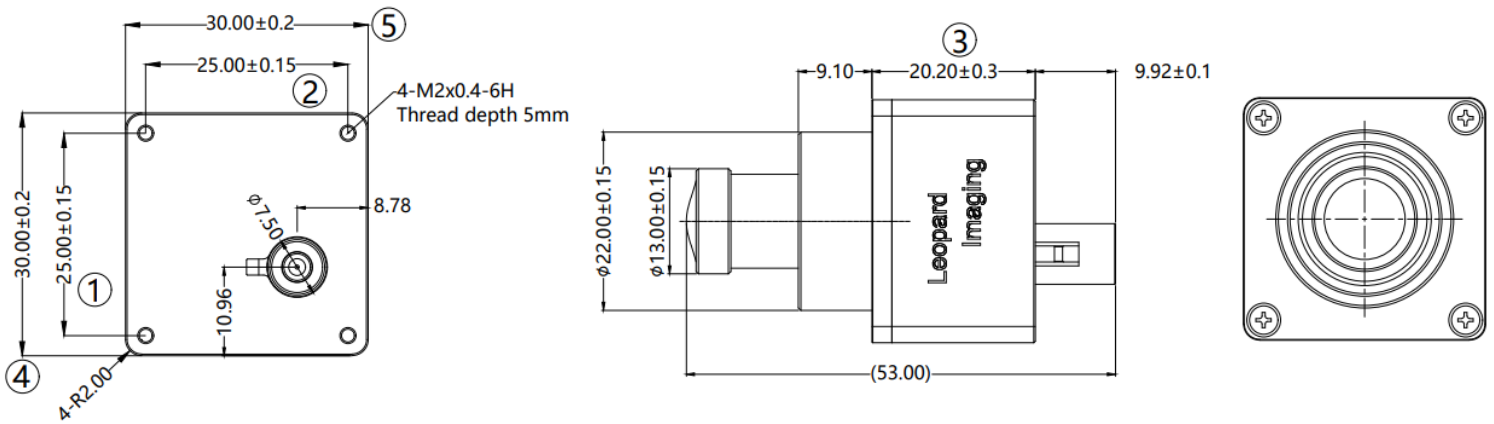
- Automotive
 - ◆ High Resolution Front Viewing
 - ◆ Machine Vision
 - ◆ Autonomous Driving
 - ◆ Assisted Driving
 - ◆ Digital Video Recording

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

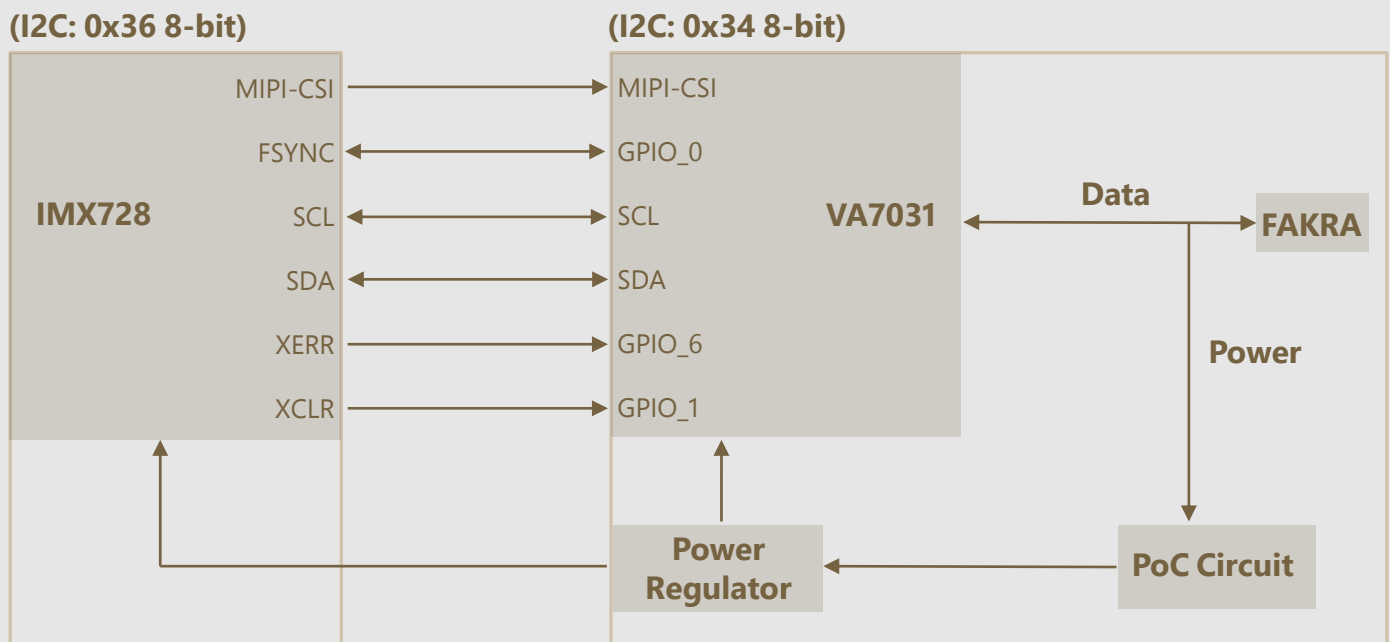


NOTE:

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

Unit: mm

SYSTEM BLOCK DIAGRAM



- REVISION HISTORY

Revision	Description	Release Date
0.1	Initial draft.	06 Jan 2026

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