



LEOPARD
IMAGING

LI-LEO-OX08B40-OAX40-GM2A-xxxH



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INTRODUCTION

The LI-LEO-OX08B40-OAX40-GM2A-xxxH is equipped with OmniVision CMOS high-definition high dynamic range sensor OX08B40, automotive ISP OAX4000 and Maxim GMSL2 serializer MAX9295. This camera outputs 3840 x 2160 image data.

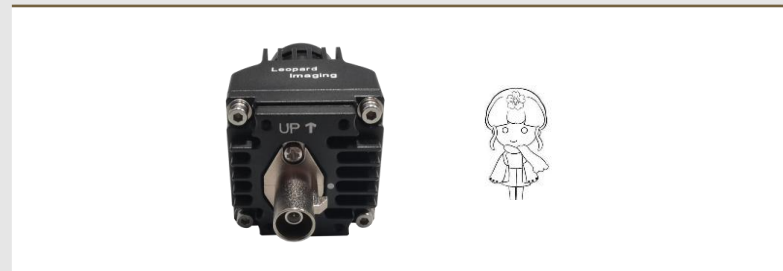
SPECIFICATIONS

Sensor	OmniVision CMOS HDR HD sensor OX08B40
Optical Format	1/1.73"
Resolution	3840 (H) x 2160 (V) (Based on ISP binary)
Pixel Size	2.1 x 2.1 μm
Output Format	YUV422
Color / Mono	Color sensor
Frame Rate	30 fps @ 3840 x 2160
HDR (High Dynamic Range)	Supported
LFM (LED Flicker Mitigation)	Supported
Serializer	Maxim MAX9295
ISP	OMNIVISION automotive ISP OAX4000
Power Supply Range	6 ~ 24 VDC
Connector	FAKRA Z TYPE
Lens	FOVH 30° / 60° / 120°
IP Rating	IP67
Power Consumption	Approx. 2.2W (3840 x 2160 @ 30 fps)
Operating Temp	-40°C ~ +85°C
Storage Temp	-40°C ~ +85°C
Weight	Around 60 g
Part#	LI-LEO-OX08B40-OAX40-GM2A-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
- Cable Part#: FAK-SMZSMZ-3M



LI-LEO-OX08B40-OAX40-GM2A-120H-M12



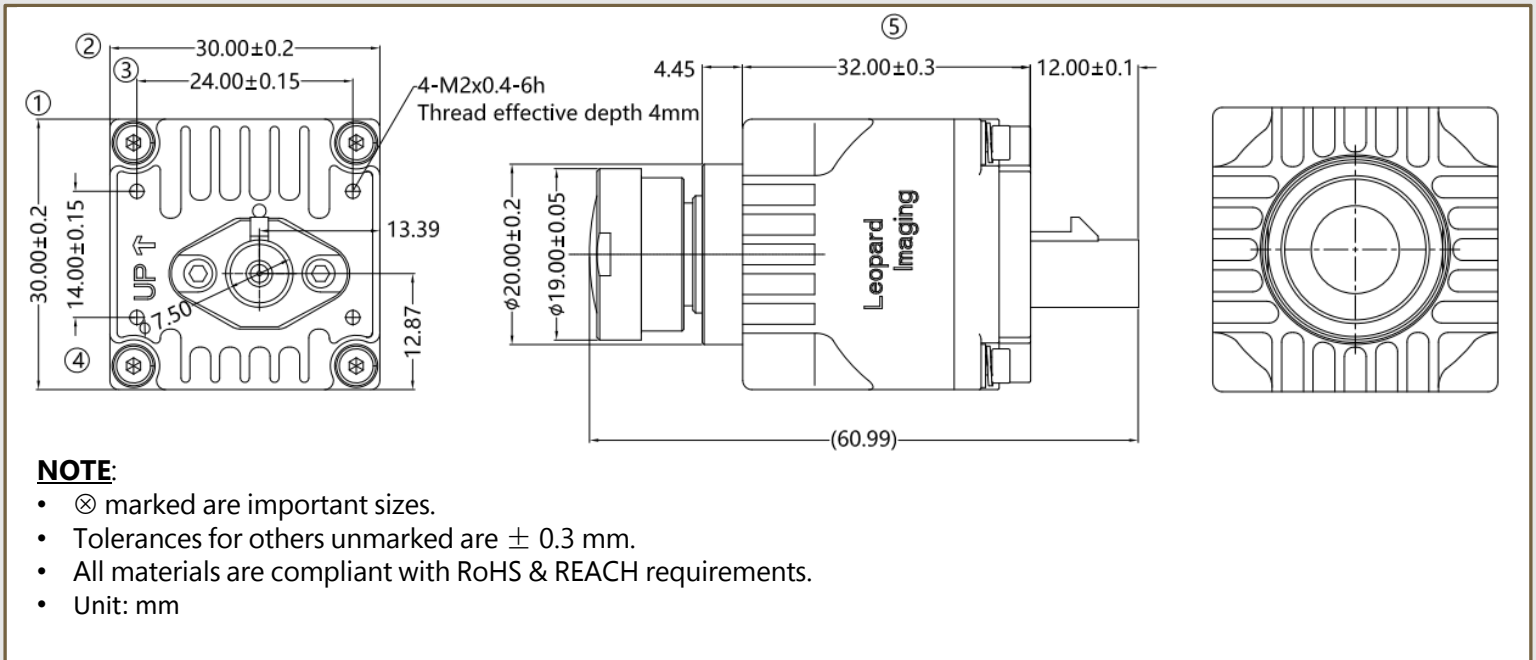
LI-LEO-OX08B40-OAX40-GM2A-060H-M12



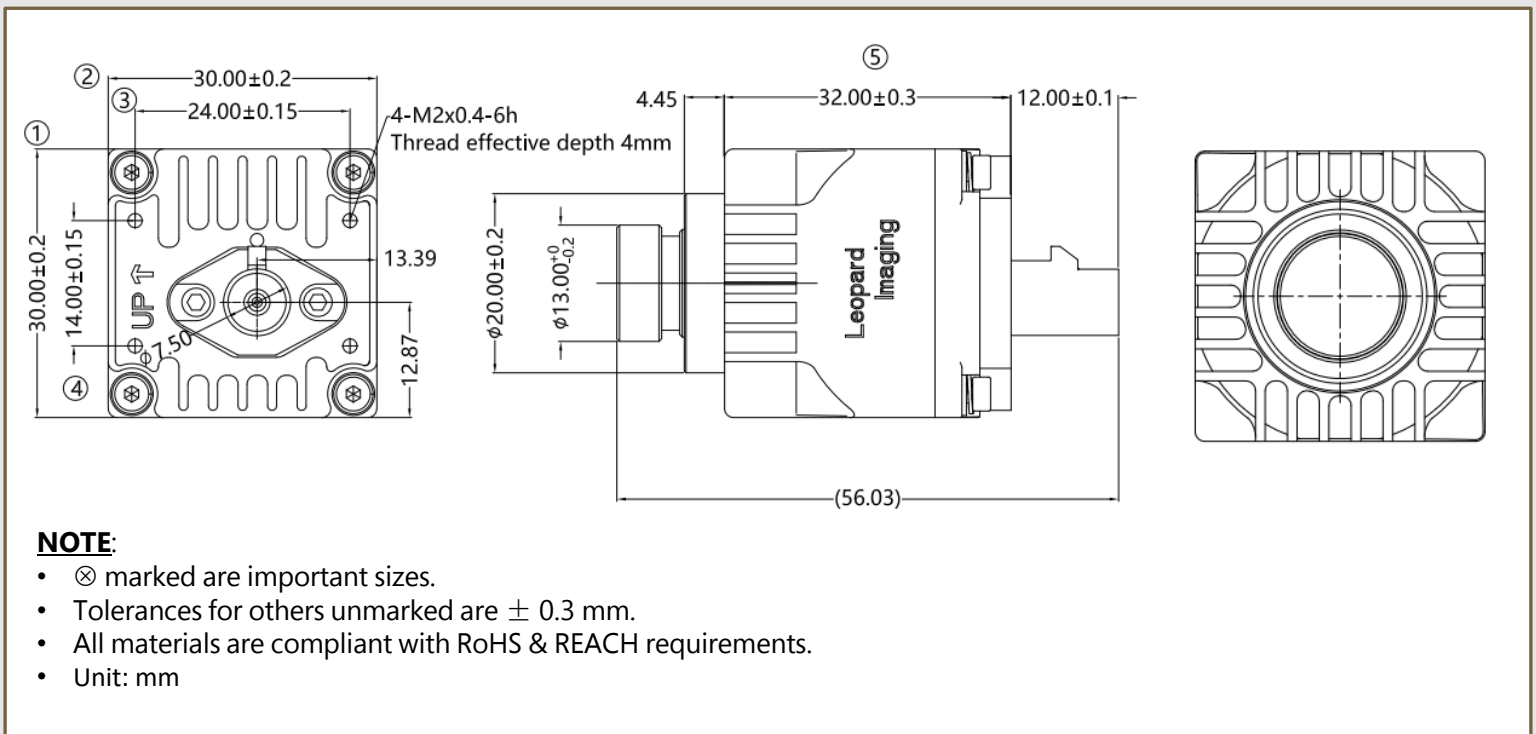
LI-LEO-OX08B40-OAX40-GM2A-030H-M16



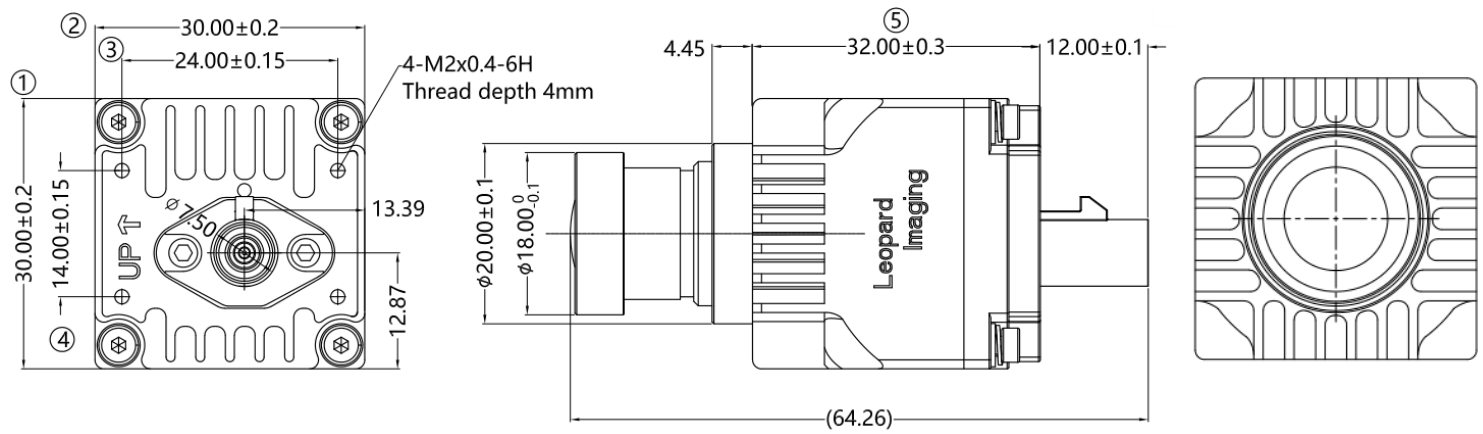
DIMENSIONS: LI-LEO-OX08B40-OAX40-GM2A-120H-M12



DIMENSIONS: LI-LEO-OX08B40-OAX40-GM2A-060H-M12



• DIMENSIONS: LI-LEO-OX08B40-OAX40-GM2A-030H-M16



NOTE:

- $\otimes$ marked are important sizes.
- Tolerances for others unmarked are ± 0.3 mm.
- All materials are compliant with RoHS & REACH requirements.
- Unit: mm

ORDERING INFORMATION

NOTE: xxxH refers to 060H (FOV H 60°) , 120H (FOV H 120°) and 030H (FOV H 30°)

LI-LEO-OX08B40-OAX40-GM2A-030H-M16



Lens EFL: 15.393 mm $\pm$ 3%

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

Field of View (FOV): 30° (H)

Mount: M16

LI-LEO-OX08B40-OAX40-GM2A-060H-M12



Lens EFL: 7.87 mm $\pm$ 0.2

Aperture, F/#: 1.8 $\pm$ 0.1

Field of View (FOV): 60° (H)

Mount: M12

LI-LEO-OX08B40-OAX40-GM2A-120H-M12



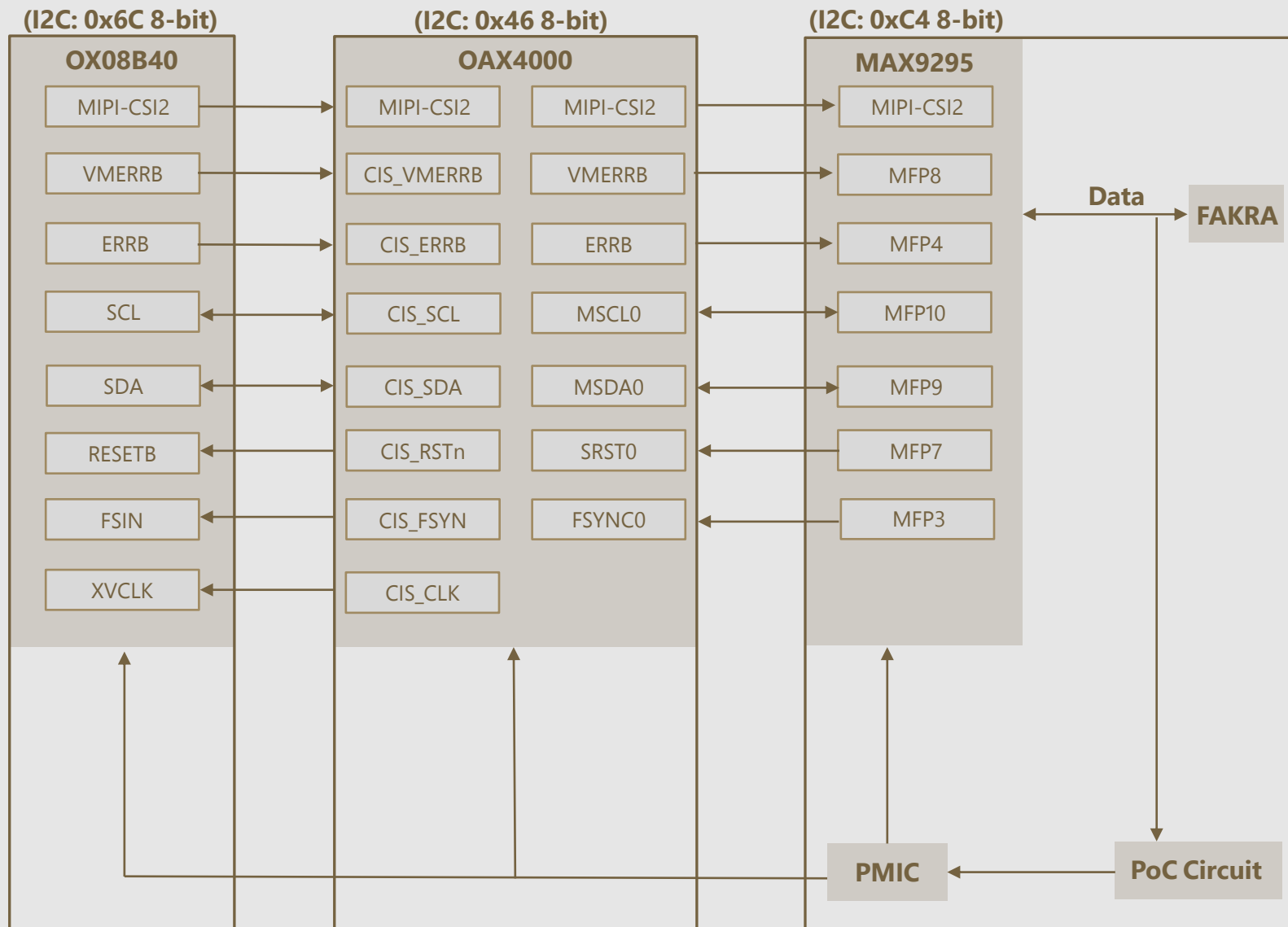
Lens EFL: 4.132 mm

Aperture, F/#: 1.63 $\pm$ 5%

Field of View (FOV): 120.1° (H)

Mount: M12

SYSTEM BLOCK DIAGRAM



• REVISION HISTORY

Revision	Description	Release Date
0.1	Initial draft.	19 May 2023
0.2	1. Add 030H lens info. 2. Update IP Rating, Operating Temp, Storage Temp and SYSTEM BLOCK DIAGRAM.	12 Jan 2024

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