LI-AR0234CS-GMSL2-OWL



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INTRODUCTION

The LI-AR0234CS-GMSL2-OWL is equipped with ON Semiconductor CMOS 2.3MP digital image sensor AR0234CS, capable of producing clear, low noise images in both low-light and bright scenes. This camera outputs 1920 x 1200 RAW data.

SPECIFICATIONS

Sensor	ON Semiconductor CMOS 2.3MP Image Sensor AR0234CS
Optical Format	1/2.6"
Resolution	1920 (H) x 1200 (V) (active pixels)
Pixel Size	3.0 x 3.0 µm
Output Format	10-bit RAW
Color / Mono	Color sensor
Frame Rate	120 fps @ full resolution
Shutter	Global shutter
Serializer	Maxim MAX9295A/B
Power Supply Range	9 ~ 19 VDC
IP Rating	IP65
FAKRA Connector	FAKRA Z TYPE
Power Consumption	70 mA @ 12 VDC
Operating Temp	-20℃ ~ +50℃
Storage Temp	-20℃ ~ +50℃
Weight	~ 37 g
Part#	LI-AR0234CS-GMSL2-OWL

APPLICATIONS

- Bar Code Scanner
- Gesture Recognition
- 3D Scanning
- Positional Tracking
- Iris Scanning
- Augmented Reality
- Virtual Reality
- Biometrics
- Machine Vision

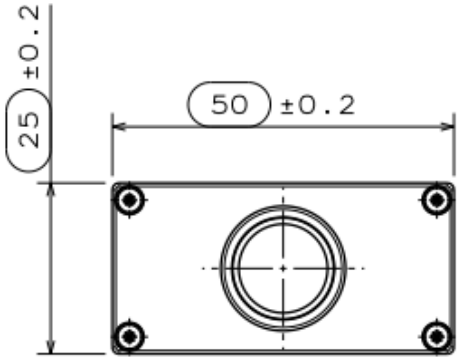
LENS SPECIFICATIONS

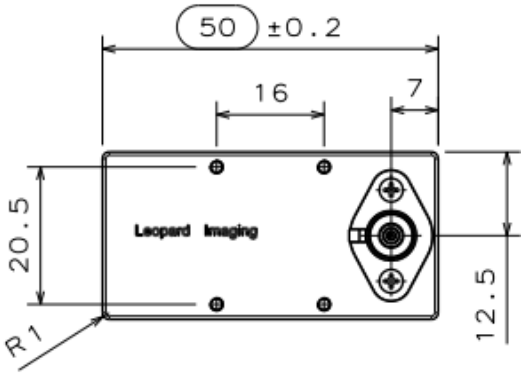
Focal Length	1.34 ± 5%
Aperture, F/#	2.0 ± 5%
Field of View (FOV)	202.0° ± 3° horizontal
	127.2° ± 2° vertical
IR Filter	650 nm ± 10 nm IR cut filter
Lens Mount	M12 x 0.5

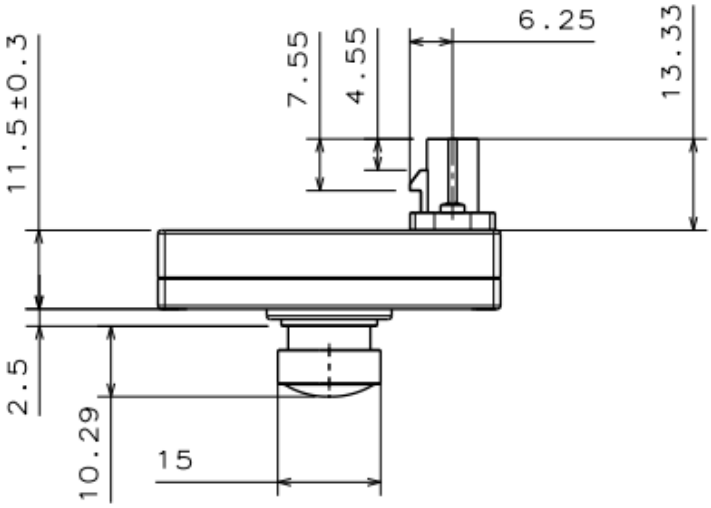


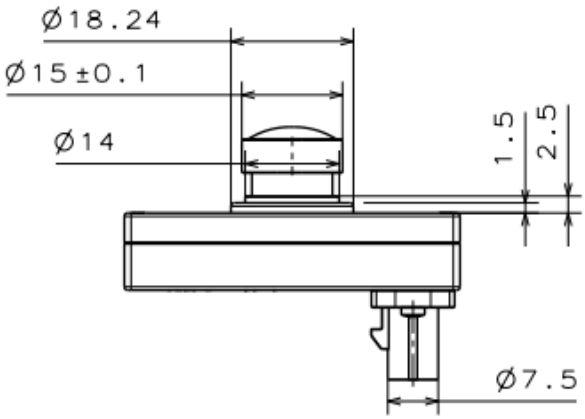


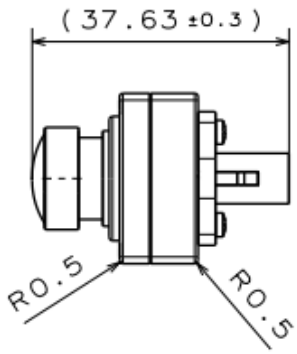
DIMENSIONS

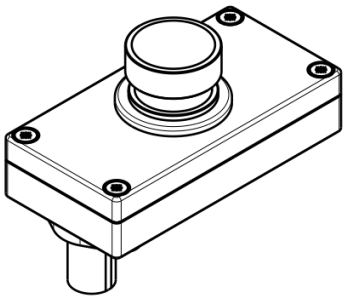










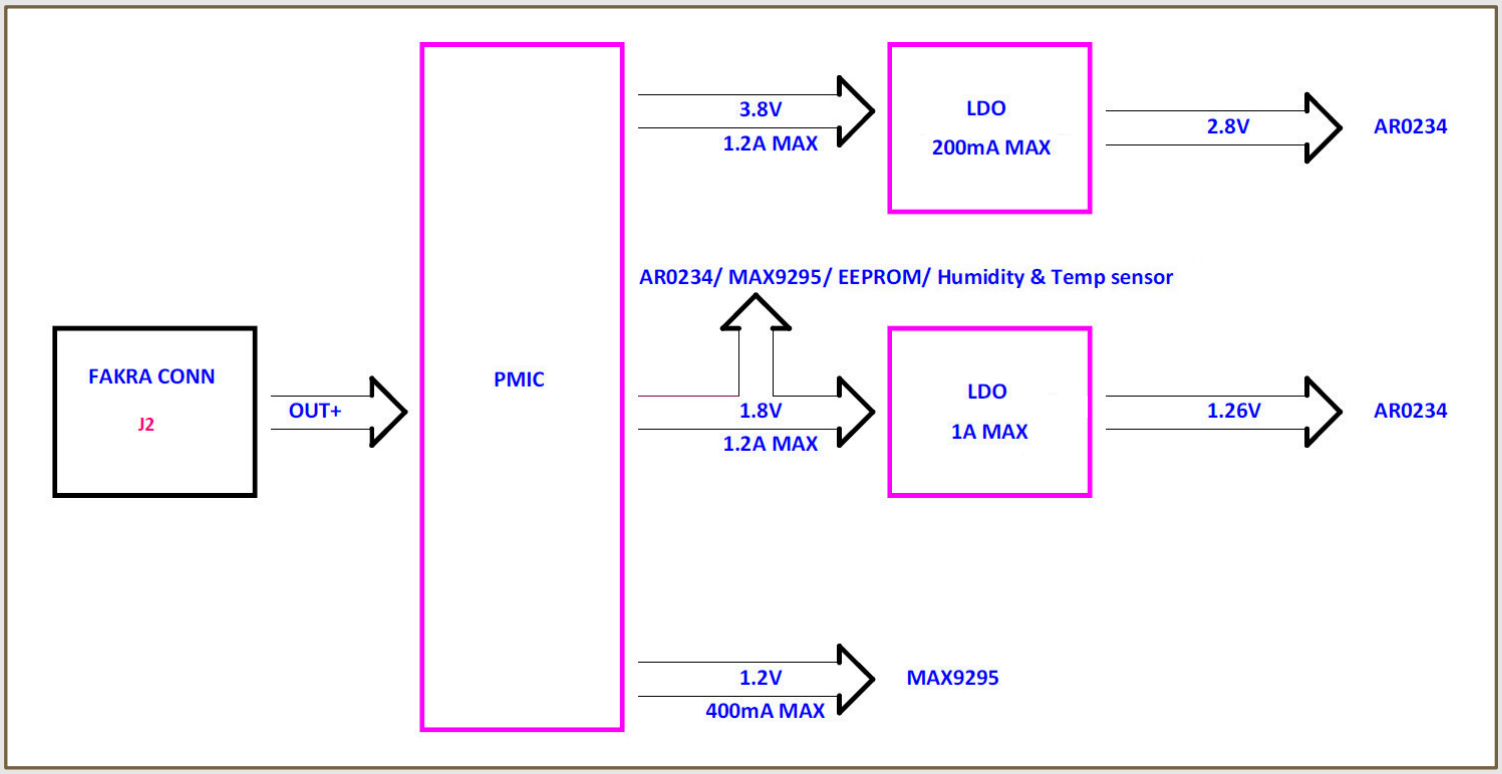


NOTE:

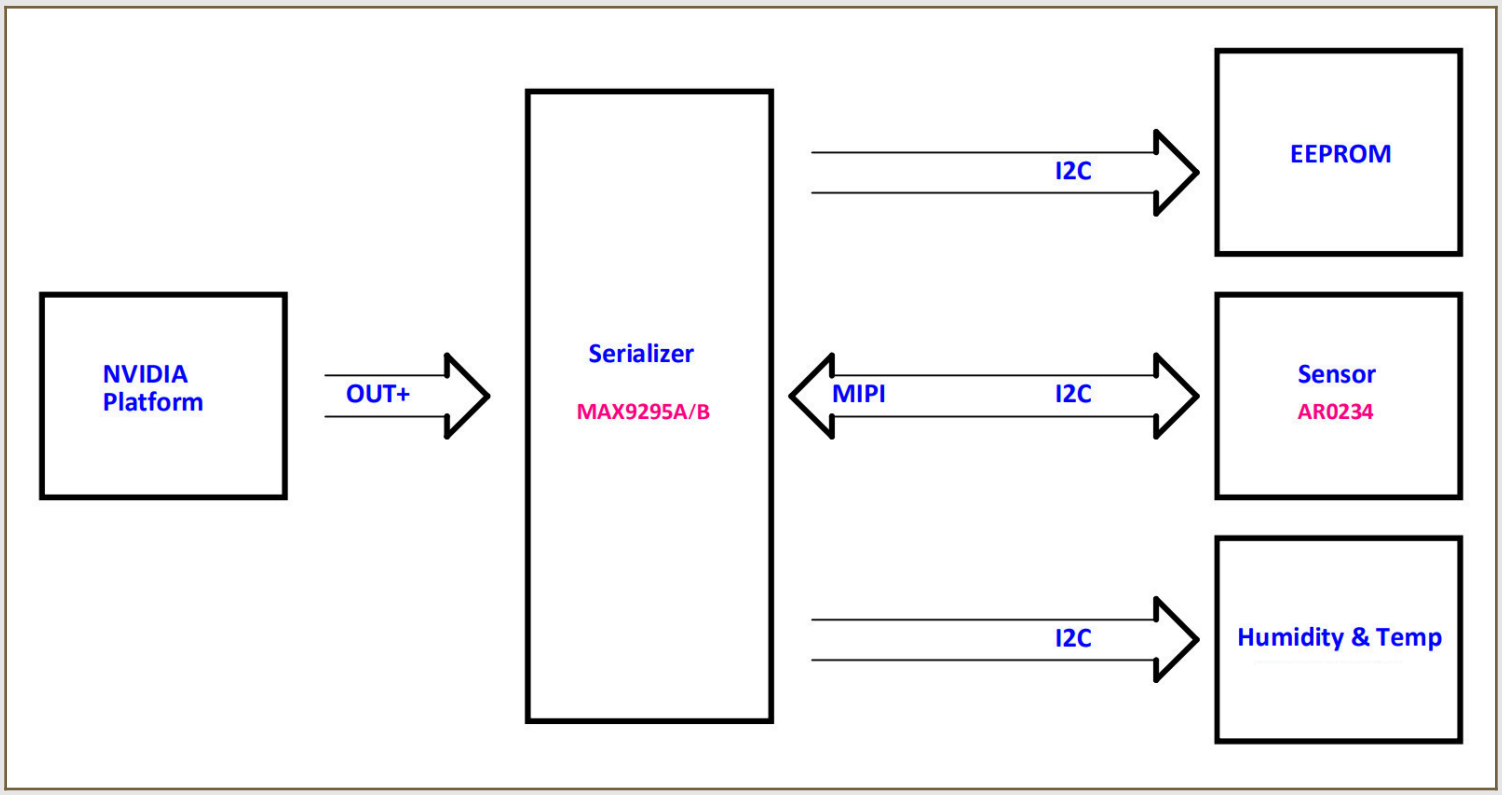
- ▭ marked are important sizes.
- Tolerance for others unmarked is ± 0.3 mm.

Unit: mm

SYSTEM BLOCK DIAGRAM



POWER BLOCK DIAGRAM

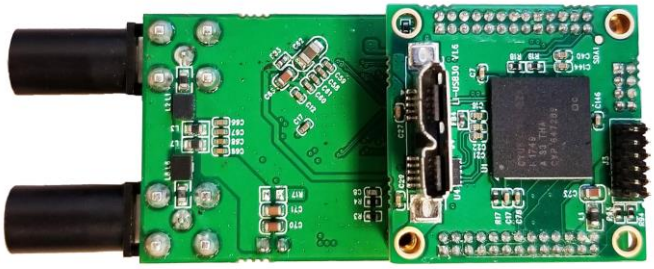


USB3.0 CAMERA KIT

LI-GMSL2-USB



Top View



Bottom View

LI-AR0234CS-GMSL2-OWL can connect to LI-GMSL2-USB as a USB 3.0 camera.

Part#: **LI-USB30-AR0234CS-GMSL2-OWL**

SPECIFICATIONS

- USB 3.0 Super Speed support
- UVC compliant
- Global shutter
- Allows customization
- 12 VDC power supply for camera
- Weight: ~ 104 g
- Single Coax Cable transmits up to 12 meters PoC (Power over Cable)
- Resolution: 1920 x 1200 @ 30 fps
- Compatible with Windows, Linux OS and other OS which have UVC drivers



BOM

#	Items	QTY
1	LI-AR0234CS-GMSL2-OWL	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.	20 May 2021
1.1	1. Replaced 3D images with actual product pictures. 2. Updated storage temp. 3. Added IP rating.	16 May 2023

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Unikeyic Electronics

Global Electronic Components Distributor

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Leopard Imaging:

LI-XAVIER-KIT-IMX415CS-T LI-OV2775-GMSL2-200H FAW-1233-03
LI-USB30-VENUS-ISX031-GMSL2-118H LI-USB30-VENUS-OX03F10-96717-195H LI-S5K2G1-GMSL2-025H
LI-TX2B-IMX390-GMSL2-060H-Q LI-USB30-AR0220-GMSL2-090H LI-XAVIER-KIT-IMX415CS
DSL612A-650-F2.0 LI-TX2B-IMX390-GMSL2-200H-Q LI-XAVIER-KIT-IMX577M12-T LI-USB30-AR023ZWDR
LI-USB30-VENUS-ISX021-GMSL2-060H LI-OV2640-USB-M6 LI-FLEX03 LI-IMX390-GMSL2-200H
LI-USB30-IMX490-FPDLINKIII-065H LI-IMX219-MIPI-FF-NANO-H136 LI-USB30-OV2311-125H
LI-XAVIER-KIT-IMX477CS-H LI-OV8865-MIPI-AF FAW-1212-T1 LI-AR0234CS-STEREO-GMSL2-30
LI-IMX415-MIPI-CS LI-IMX477-MIPI-CS LI-VENUS-ISX021-GMSL2-118H LI-IMX185-MIPI-M12
LI-USB30-AR0231-GMSL-R7-120H LI-USB30-OX05B1S-VCSEL-OMS-9295-200H