



LEOPARD IMAGING INC

LI-AR0234YUV-GMSL2-QC

Data Sheet

Key Features

- ON SEMI 2.3 MP AR0234 Sensor
- Optical format: 1/2.6"
- Maximum resolution: 1920H x 1200V
- Pixel size: 3.0 μm x 3.0 μm
- 12-bit Raw output without compression
- Monochrome sensor
- Global shutter
- Lens: FOV H 92
- Includes 930nm ~ 960nm band pass filter
- Includes four 950nm IR LEDs
- GMSL2 Serializer
- Connector: FAKRA Z TYPE
- Operation Temp: -40 ~ 105 °C (ambient)
-40 ~ 125 °C (junction)
- Weight: 128.6g +/- 0.5g
- Part#: **LI-AR0234YUV-GMSL2-QC**



Application

- In Cabin Automotive
 - Gesture Recognition
 - Iris Scanning
 - Head Roll
 - Eye Tracking
 - Augmented Reality

Lens Spec

- Model: HK-8205-H1
- Focal length: 3.6 mm
- Aperture, F/#: 2.0
- Built in 940nm IR filter
- FOV (H): 92°
- Distortion: -45%
- Mount: M12 x 0.5

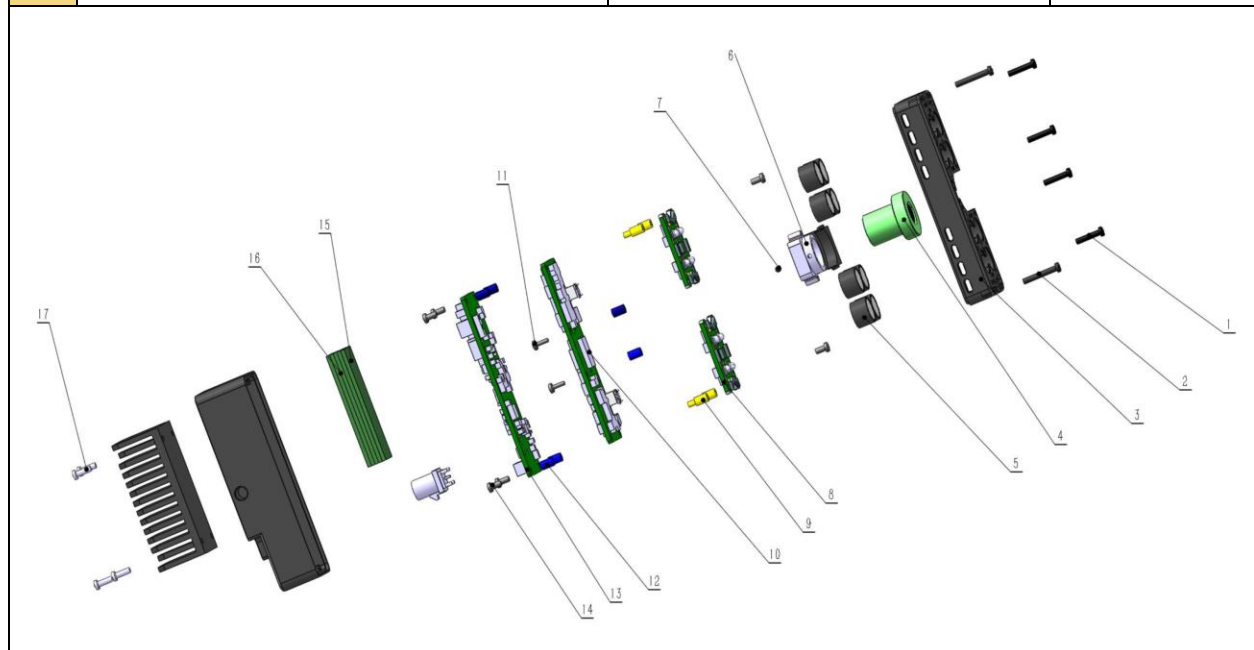


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BOM

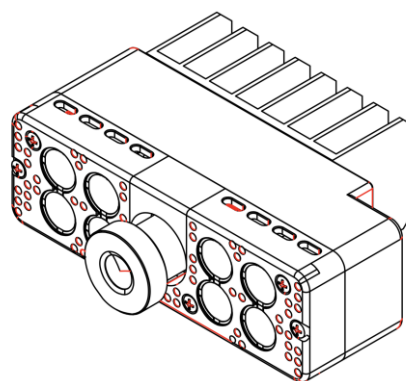
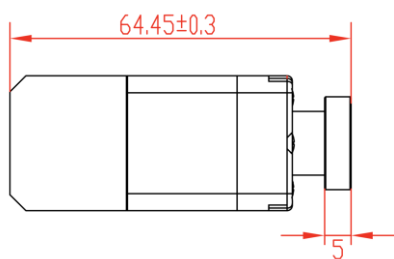
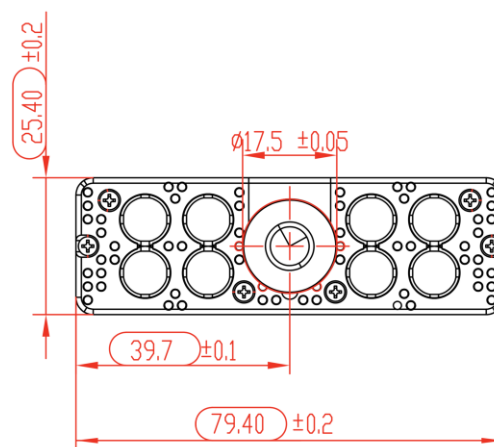
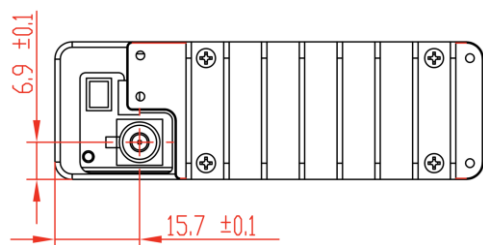
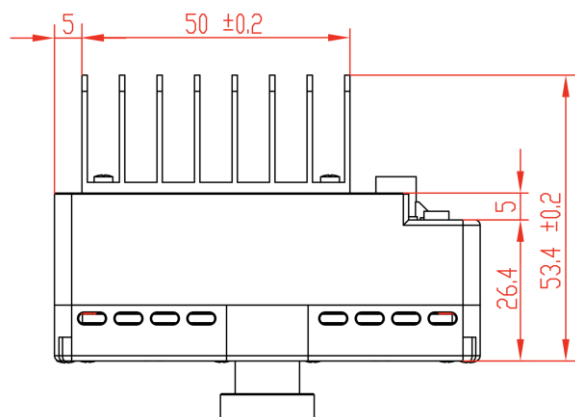
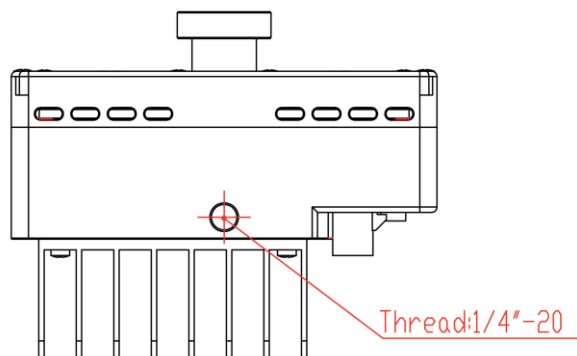
#	Material Number	Description	QTY/SET
1	10.02.S020080SA4DP	M2 x 10 screw	4
2	10.02.C020140PA4ZL	M2 x 14 screw	2
3	10.09.34QC90-00	Enclosure	1
4	08.01.HK-8205-H1-M12-PT-4	Lens	1
5	C12491_SIRI-DIFF	Diffuser	8
6	08.04.LI-M12-155-T-00	Lens holder	1
7	10.04.C020020HABD	M2 x 2 set screw for lens	1
8	LI-IRLED-950 V1.0	LED board	2
9	10.05.U020030GCPX	M2 x 5 + 3 standoff	4
10	LI-AR0234-MIPI-QC V1.0	Sensor board	1
11	10.02.C014050PR4NL	M1.4 x 5 screw, silver	2
12	10.05.U020050GCNX	M2 x 5 standoff	6
13	LI-GMSL2-CSLINK-QC V1.0	GMSL2 board	1
14	10.02.C020040PA4ZL	M2 x 4 screw	10
15	10.10.HSP8040015	Thermal pad	1



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Dimensions



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Cable Connector

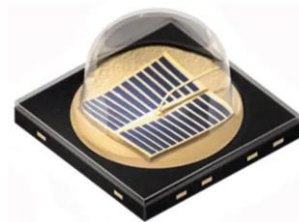
- Housing Connector- FAKRA Z Type
- Cable length: 3 meters
Support single Coax Cable transmit up to 12 meters
- Cable Part#: FAK-SMZSMZ-3M
- FAKRA type connectors



IR LED

- Part#: SFH 4725S
- Wavelength: 950nm
- Viewing Angle: 90°
- Operating Temperature: -40°C ~ 125°C (TA)
- Power supply: 12VDC
- QTY on camera: 8

NOTE: Do not place this demo module within 0.2 meter from human eye to avoid the hazard by IR LED.



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LI-USB30-DESER-GMSL2



LI-AR0234YUV-GMSL2-QC can connect to LI-USB30-DESER-GMSL2 as a USB 3.0 camera.

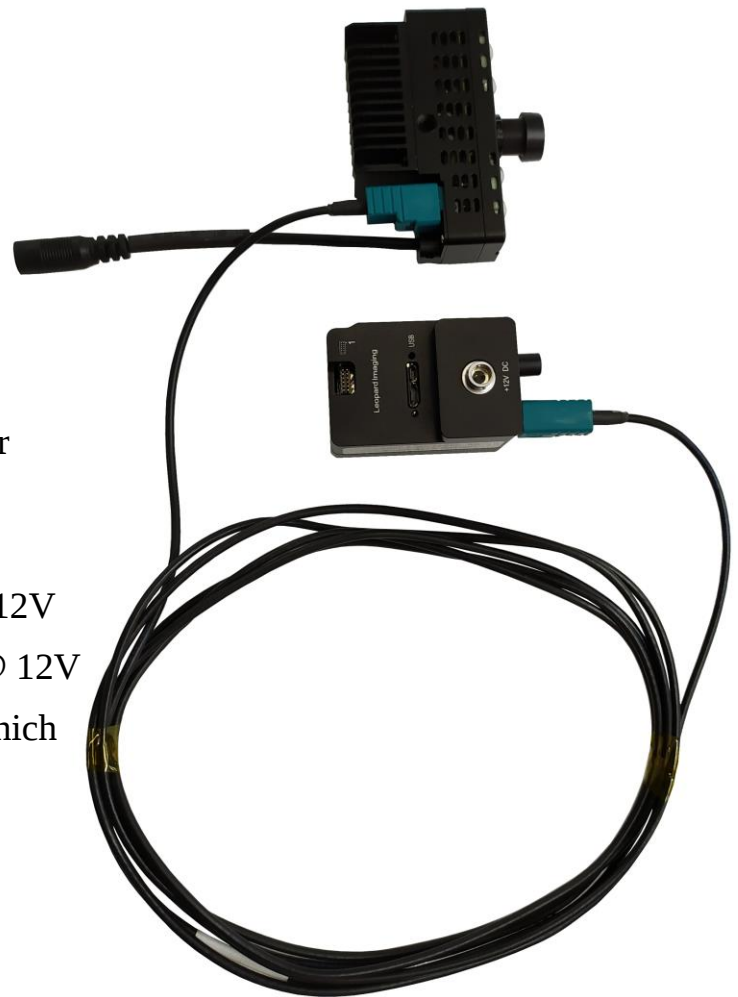
Part#: **LI-USB30-AR0234YUV-GMSL2-QC**

Key Features

- USB 3.0 Super Speed support
- 12-bit Raw output without compression
- UVC compliance
- 12VDC Power Supply for Camera
- 12VDV Power Supply for LEDs
- Weight: 256g +/- 3 g
- Single Coax Cable transmit up to 12 meter PoC(Power over Cable)
- Support 1920x1200@30fps
- Power consumption (LED): < 350mA @ 12V
- Power consumption (Camera): < 85mA @ 12V
- Support Windows, Linux and other OS which includes the UVC drivers

SDK Supported

- Camera Tool Source Code in C#
- Capture & Display
- Raw to Grayscale conversion



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Revision History

Revision	Description	Release Date
1.0	First Release	15. Aug. 2019
1.1	Update the LED diffuser and housing	19. Dec. 2019
1.2	Add enclosure to LI-USB30-DESER-GMSL2	30. Mar. 2020



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