



LEOPARD IMAGING INC

LI-AR0220-GMSL2-xxxH

Data Sheet

Key Features

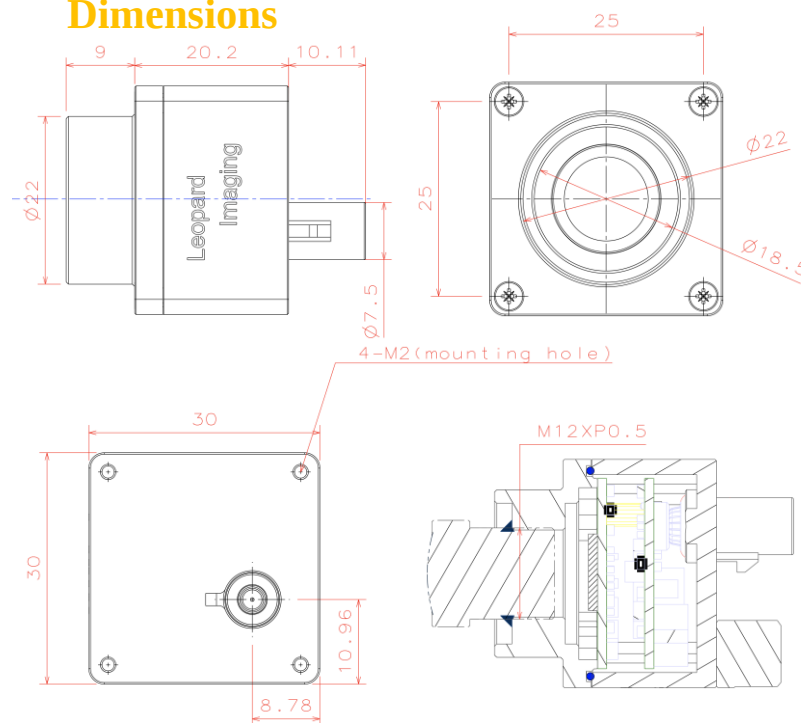
- ON SEMI AR0220 1.7M CMOS Sensor
- Optical format: 1/1.8"
- Maximum resolution: 1820H x 940V
- Pixel size: 4.2 μm x 4.2 μm
- Full resolution @ 36fps
- Support 9V ~ 19V Power
- Lens: HFOV 60 / 90/ 120
- GMSL2 Serializer
- Connector: FAKRA Z TYPE
- Water proof: IP67
- Operation Temp: -40 ~ 85 °C
- Storage Temp: -40 ~ 125 °C
- Size: 30 x 30 x 20.2 mm
- Weight: 45 g
- Part#: **LI-AR0220-GMSL2-xxxH**



Application

- High Performance ADAS
- Automotive Rear View or Backup
- Automotive Surround View
- Electronic Mirror Replacement
- ADAS + Viewing Fusion

Dimensions

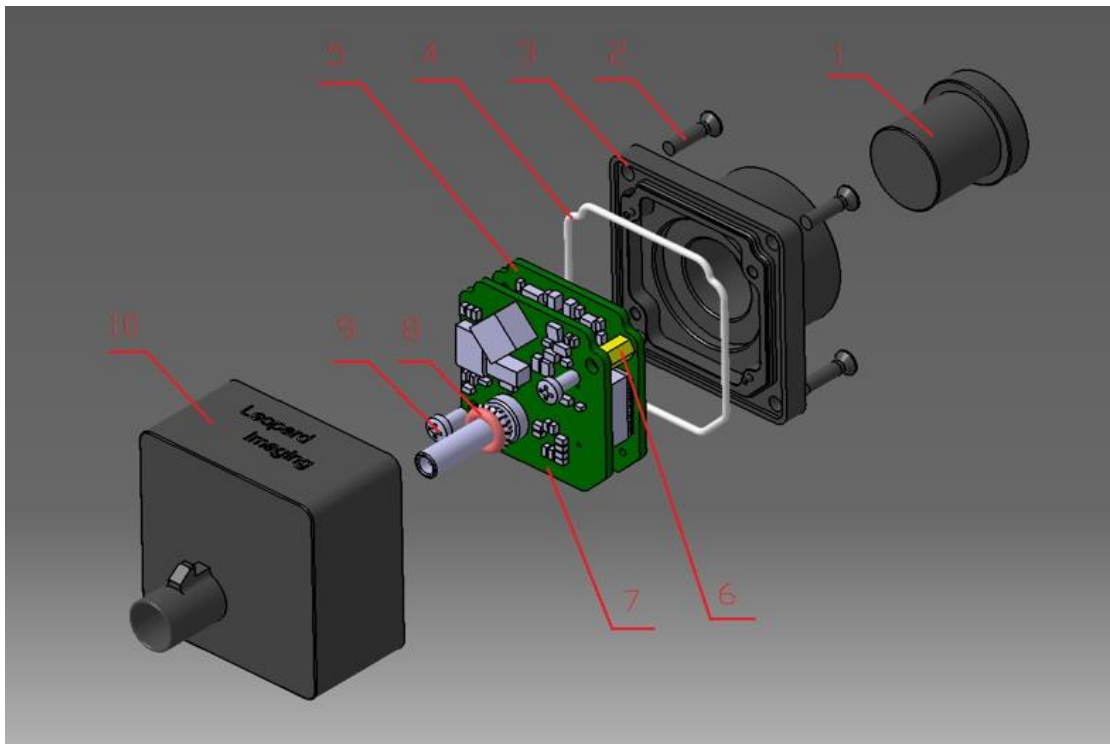


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BOM

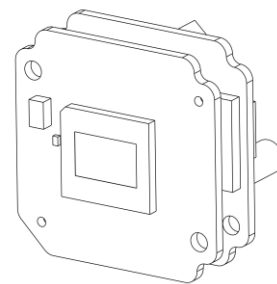
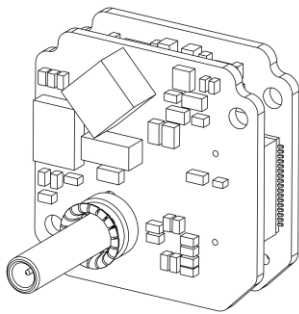
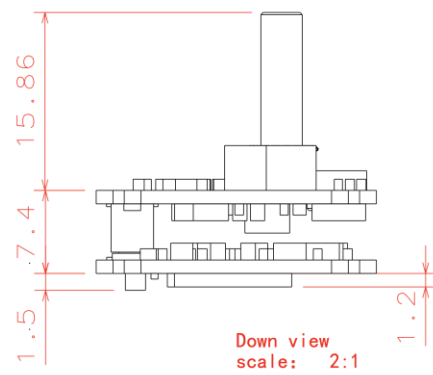
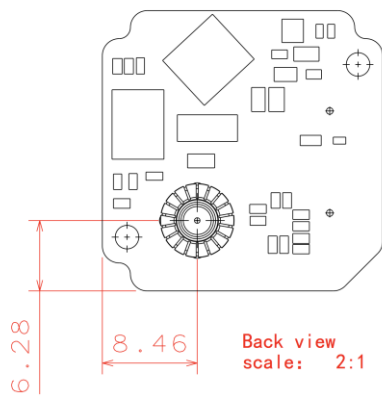
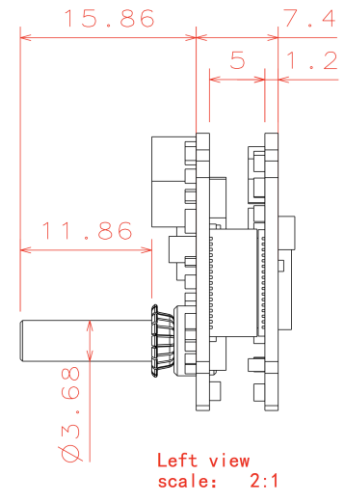
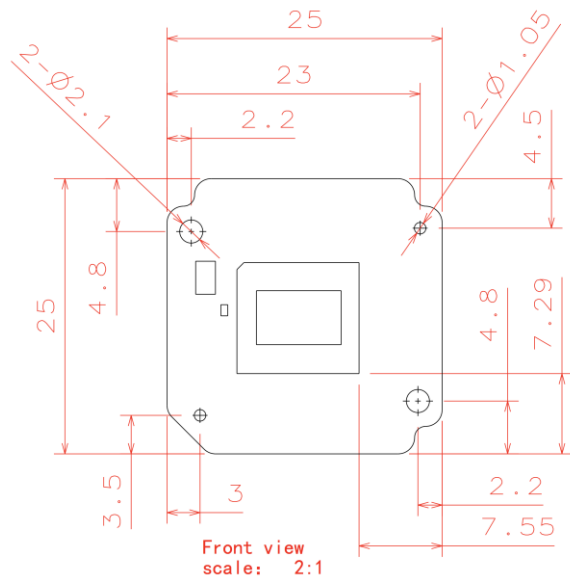
#	Name	SPEC	QTY/SET
1	Lens	M12 lens	1
2	Screw	M2*8 cross flat head black ZINC	4
3	Shell 2	AL6061-T6 BLACK Anodizing	1
4	Sealing ring	Silicon rubber, White	1
5	LI-AR0220-MIPI	AR0220 sensor board	1
6	Copper pillar	M2*5+3	2
7	LI-GMSL2-FKR	GMSL2 board	1
8	O ring	6.5*1.5 Silicon rubber Red	1
9	Screw	M2*4 cross pan head black ZINC	2
10	Shell 1	AL6061-T6 BLACK Anodizing	1



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Camera boards Dimensions

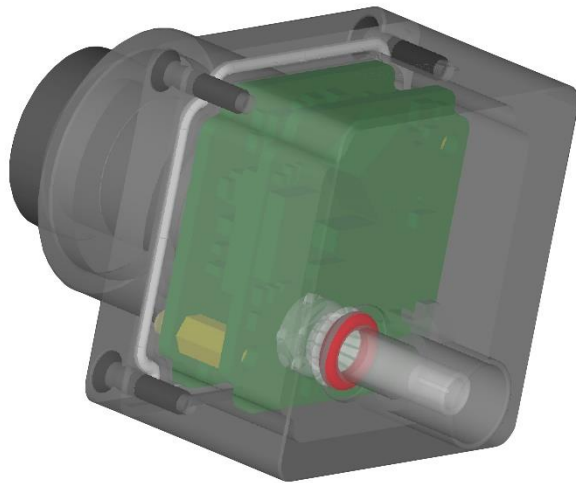


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Water Proof

- Metal Housing
- Water-proof M12 lens
- Sealed Gasket (White)
- Sealed O-ring (Red)



Cable Connector

- Housing Connector- FAKRA Z Type
- Cable length: 3 meters
Support single Coax Cable transmit up to 12 meters
- Cable Part#: FAK-SMZSMZ-0008
- FAKRA type connectors



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Ordering Information

Part#: LI-AR0220-GMSL2-xxxH

Note:

xxxH - 060H: FOV H 60°
090H: FOV H 90°
120H: FOV H 120°

LI-AR0220-GMSL2-060H	LI-AR0220-GMSL2-090H	LI-AR0220-GMSL2-120H
		
Lens: M127B0818W Lens EFL: 8.0 mm FOV(D): 65.5° FOV(H): 57.5° FOV(V): 28.5°	Lens: M127B0618W Lens EFL: 6.0 mm FOV(D): 109° FOV(H): 90° FOV(V): 42°	Lens: LC001 Lens EFL: 3.98 mm FOV(D): 133° FOV(H): 117° FOV(V): 59°



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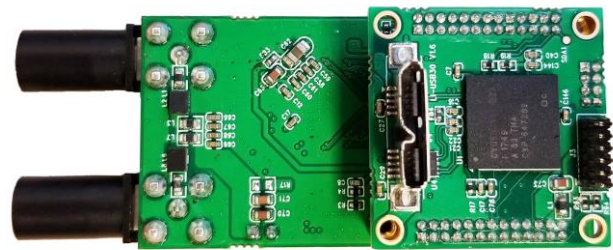
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LI-GMSL2-DESER



Front View

LI-USB30-CNTL



Back View

LI-AR0220-GMSL2 can connect to USB 3.0 EVA module as a USB 3.0 camera.

Part#: **LI-USB30-AR0220-GMSL2-xxxH**

Key Features

- USB 3.0 Super Speed support
- RAW data output without compression
- UVC compliance
- Provide customization services
- 12VDC Power Supply
- Weight: 86 g
- Single Coax Cable transmit up to 15 meter PoC(Power over Cable)
- Support 1828x948@36fps
- Power consumption: < 90mA @ 12V

SDK Supported

- Camera Tool Source Code in C#
- Capture & Display
- Save file as BMP & RAW format



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Revision History

Revision	Description	Release Date
1.0	First Release	11. Jan. 2018
1.1	Update the lenses	7. Aug. 2018
1.2	Add power consumption	30. Jul. 2019



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