



LEOPARD IMAGING INC

LI-IMX490-GMSL2-xxxH

Data Sheet

Key Features

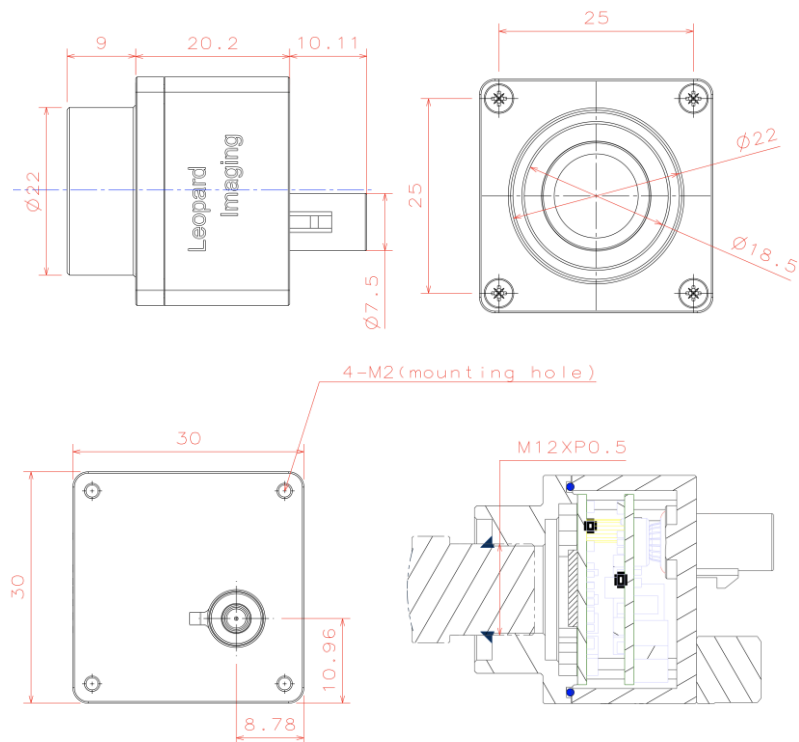
- Sony Diagonal 10.36mm (Type 1/1.55)
5.36MP CMOS Image Sensor IMX490
- Optical format: 1/1.55"
- Number of active pixels: 2880H x 1860V
- Pixel size: 3.0 μm x 3.0 μm
- Output Raw data
- Support 9V ~ 19V Power
- Lens: FOV H 40 / 65 / 90 / 120
- GMSL2 Serializer
- Connector: FAKRA Z TYPE
- Water proof: IP67 (Up to IP69K)
- Operation Temp: -40 ~ 85 °C
- Storage Temp: -40 ~ 125 °C
- Size: 30 x 30 x 29.2 mm
- Weight: 50g ~ 75g (based on lens)
- Part#: **LI-IMX490-GMSL2-xxxH**



Application

- Automotive ADAS
- Automotive Rear View or Backup

Dimensions

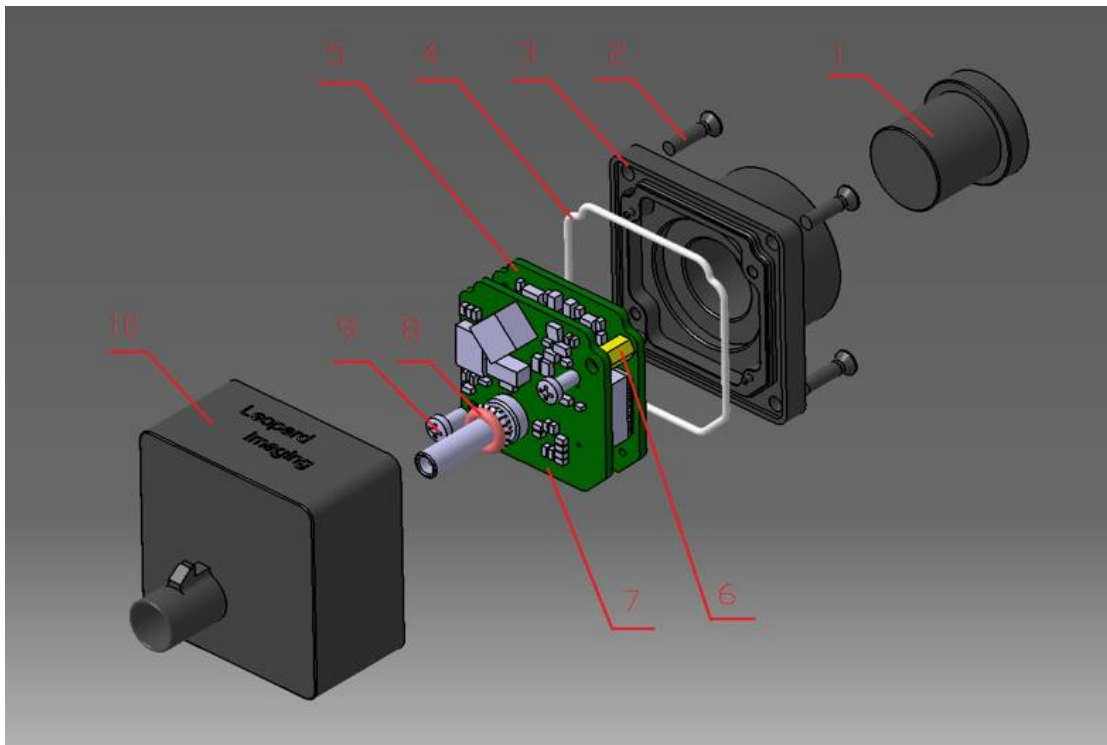


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BOM

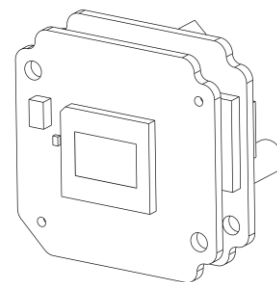
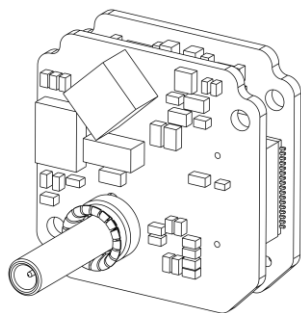
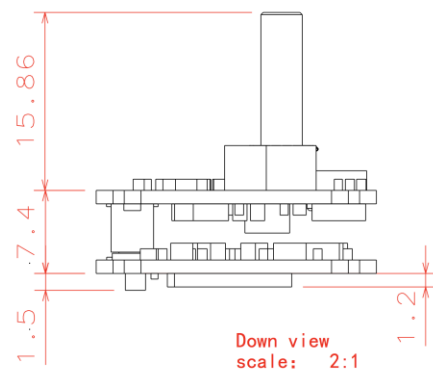
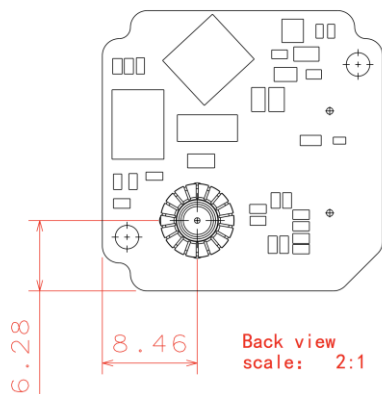
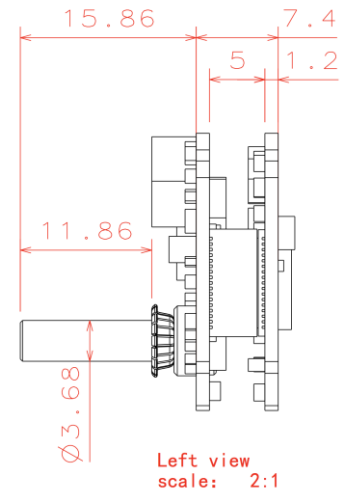
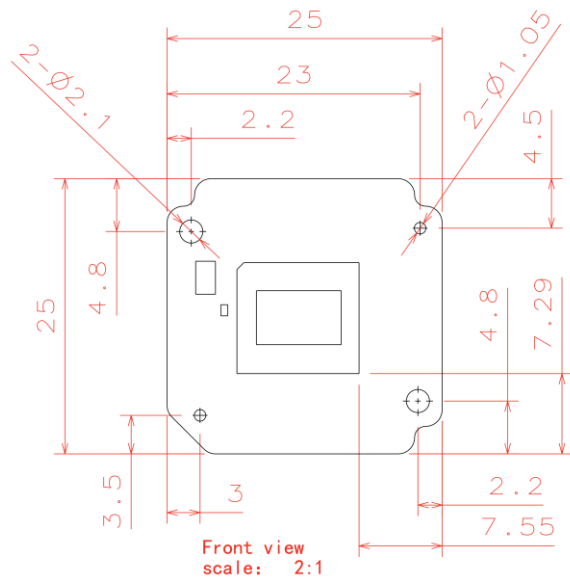
#	Name	SPEC	QTY/SET
1	Lens	DSL612 DSL608 DSL492 Car-53	1
2	Screw	M2*8 cross flat head black ZINC	4
3	Shell 2	AL6061-T6 BLACK Anodizing	1
4	Sealing ring	Silicon rubber, White	1
5	LI-IMX490-MIPI-FKR	IMX490 sensor board	1
6	Copper pillar	M2*5+3	2
7	LI-GMSL2-FKR	GMSL2 board	1
8	O ring	6.5*1.5 Silicon rubber 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



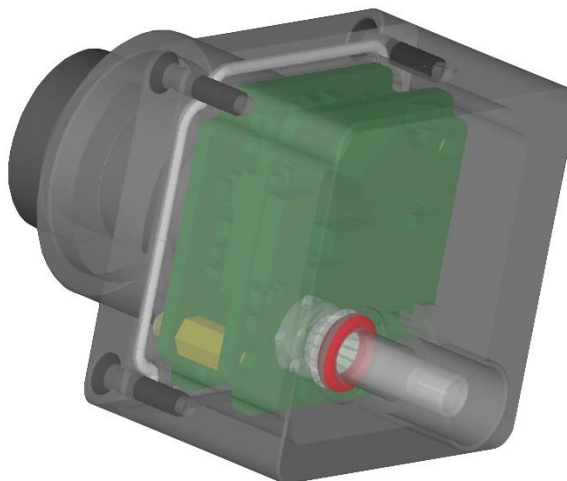
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Water Proof

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

Note: The lens must be glued for water proof.



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



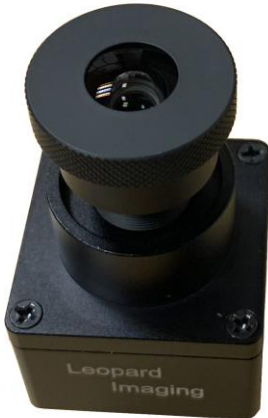
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Ordering Information

Note:

xxxH - 040H: FOV H 40 °
 065H: FOV H 65 °
 090H: FOV H 90 °
 120H: FOV H 120 °

LI-IMX490-GMSL2-040H	LI-IMX490-GMSL2-065H	LI-IMX490-GMSL2-090H	LI-IMX490-GMSL2-120H
			
Lens: DSL612 Lens EFL: 11.9 mm F/#: 2.0 FOV(D): 44.4° FOV(H): 38° FOV(V): 20.8° Mount: M12	Lens: DSL608 Lens EFL: 7.9 mm F/#: 2.0 FOV(D): 74° FOV(H): 65° FOV(V): 37° Mount: M12	Lens: DSL492 Lens EFL: 5.9 mm F/#: 2.9 FOV(D): 100.8° FOV(H): 88.4° FOV(V): 52° Mount: M20	Lens: CAR-53 Lens EFL: 4.47 mm F/#: 1.6 FOV(D): 152° FOV(H): 121.5° FOV(V): 68° Mount: M16



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LI-GMSL2-DESER

LI-USB30-CNTL



Front View



Back View

LI-IMX490-GMSL2-xxxH can connect to USB 3.0 EVA module as a USB 3.0 camera.
Part#: **LI-USB30-IMX490-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 12 meter PoC(Power over Cable)
- Support 2896x1876 @ 10fps
- Power consumption: < 100mA at 12VDC
- Support Windows, Linux OS and other OS which include UVC drivers

SDK Supported

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



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Revision History

Revision	Description	Release Date
1.0	First Release	20. Aug. 2019
1.1	Add DSL492 lens and update the resolution to full size	26. Aug. 2019



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