



LEOPARD IMAGING INC

LI-AR0144-GMSL

Data Sheet

Key Features

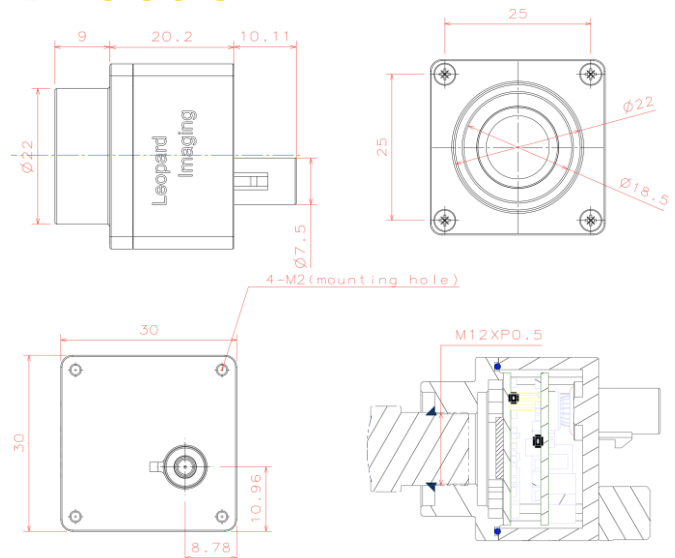
- ON SEMI 1.0 MP AR0144 Sensor
- Optical format: 1/4"
- Maximum resolution: 1280H x 800V
- Pixel size: 3 μ m x 3 μ m
- Output 12 bit Raw data
- Support Global Shutter
- 27MHz clock input
- Support 4 V ~ 7V Power
- Lens: FOV H 40 / 80 / 200
- MAX96705 Serializer
- Connector: FAKRA Z TYPE
- Water proof: IP67
- Operation Temp: -40 ~ 85 °C
- Storage Temp: -40 ~ 105 °C
- Size: 30 x 30 x 20.2 mm
- Weight: 45 g
- Part#:
LI-AR0144-GMSL-040H
LI-AR0144-GMSL-080H
LI-AR0144-GMSL-200H



Application

- Gesture Recognition
- 3D scanning
- Positional tracking
- Iris scanning
- Augmented reality
- Virtual reality
- Biometrics
- Machine vision

Dimensions

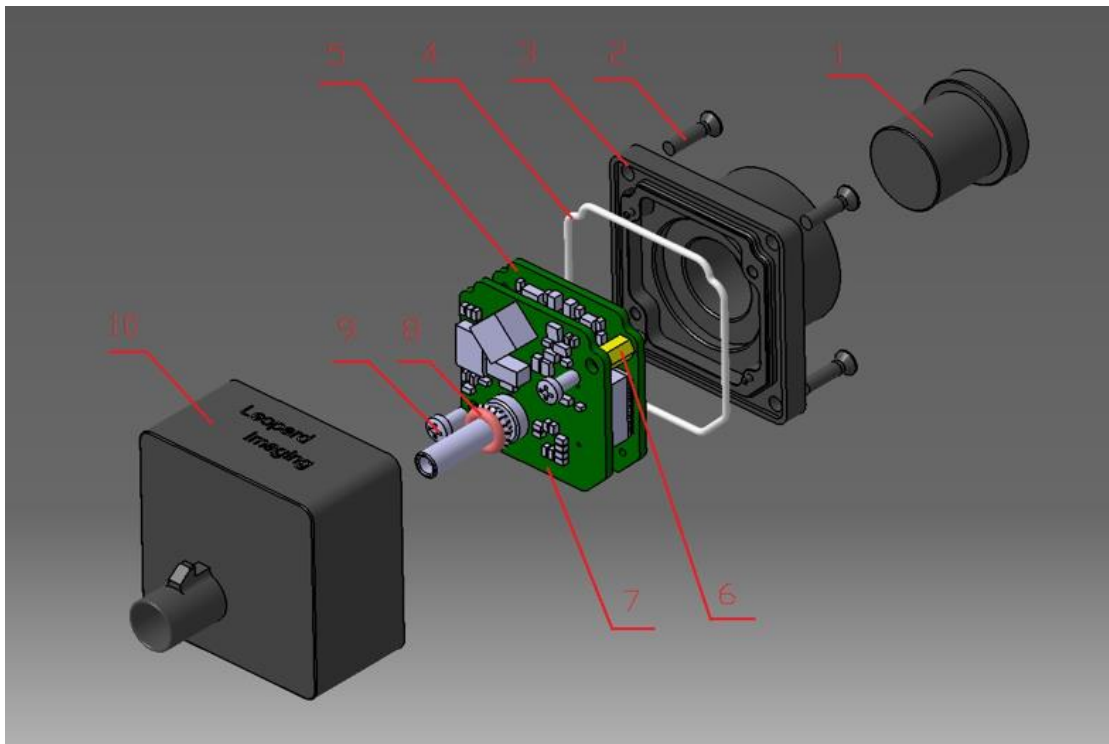


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1130 Cadillac Ct., Milpitas, CA 95035, USA
Phone: +1-408-263-0988
Fax: +1-408-217-1960
Email: sales@leopardimaging.com
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BOM

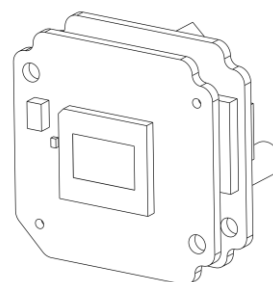
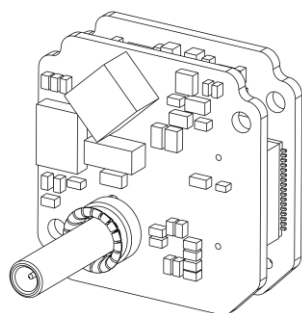
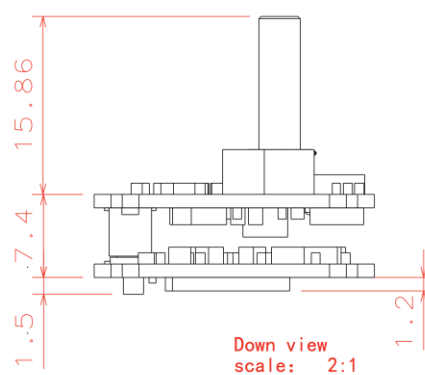
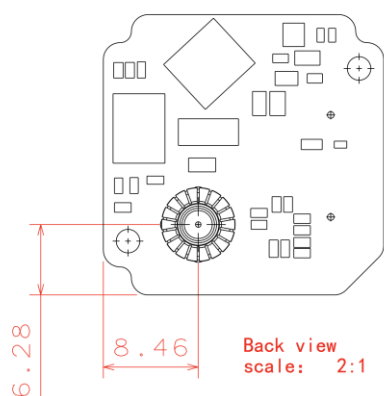
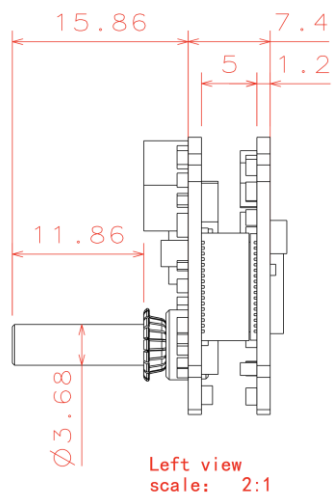
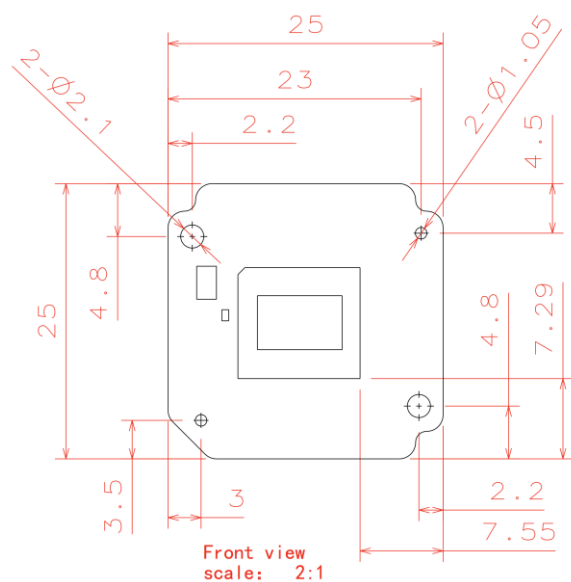
#	Name	SPEC	QTY/SET
1	Lens	M12 lens	1
2	Screw	M2*8 cross flat head black ZINC	4
3	Shell 2	AL6061-T6 BLACK Anodizing	1
4	Sealing ring	Silicon rubber, White	1
5	LI-AR0144-PAR-FKR	AR0144 sensor board	1
6	Copper pillar	M2*5+3	2
7	LI-GMSL-FKR	GMSL board	1
8	O ring	6.5*1.5 Silicon rubber Red	1
9	Screw	M2*4 cross pan head black ZINC	2
10	Shell 1	AL6061-T6 BLACK Anodizing	1



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Camera boards Dimensions

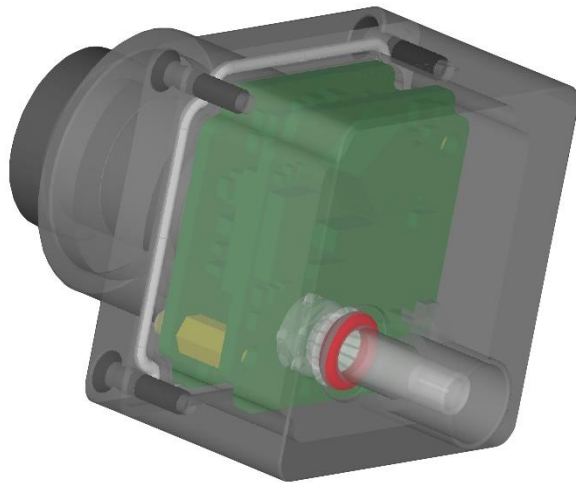


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Water Proof

- 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 15 meters
- Cable Part#: FAK-SMZSMZ-0008
- FAKRA type connectors



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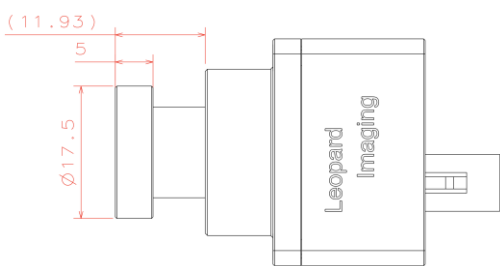
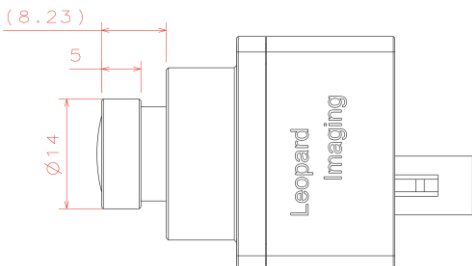
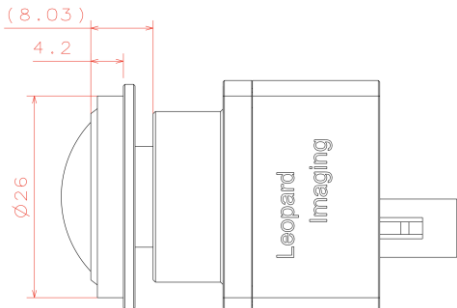
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Ordering Information

Part#: LI-AR0144-GMSL-xxxH

Note:

xxxH - 040H: FOV H 40°
 080H: FOV H 80°
 200H: FOV H 200°

LI-AR0144-GMSL-040H	LI-AR0144-GMSL-080H	LI-AR0144-GMSL-200H
		
Lens: M127B0618W Lens EFL: 6.0 mm FOV(D): 46.5° FOV(H): 40° FOV(V): 22.5°	Lens: M128B02820WM12R1 Lens EFL: 2.8 mm FOV(D): 93° FOV(H): 80° FOV(V): 46°	Lens: F132B0108WM12 Lens EFL: 1.08 mm FOV(D): 200° FOV(H): 200° FOV(V): TBD
		



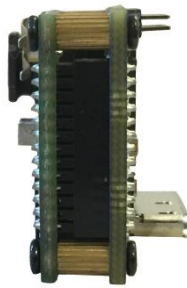
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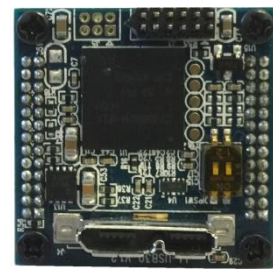
LI-TESTER-NV



Front View



Side View



Back View

LI-AR0144-GMSL can connect to USB 3.0 EVA module as a USB 3.0 camera.
Part#: **LI-USB30-AR0144-GMSL-xxxH**

Key Features

- USB 3.0 Super Speed support
- RAW data output without compression
- UVC compliance
- Provide customization services
- USB +5VDC powered device
- Weight: 86 g
- Single Coax Cable transmit up to 15 meter PoC(Power over Cable)
- Support 1280x800@60fps
- Power consumption: 220mA @ 5V

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	8. Oct. 2017
1.1	Update the power consumption	24. Dec. 2017



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