



LEOPARD IMAGING INC

LI-AR0144-GMSL

Data Sheet

Key Features

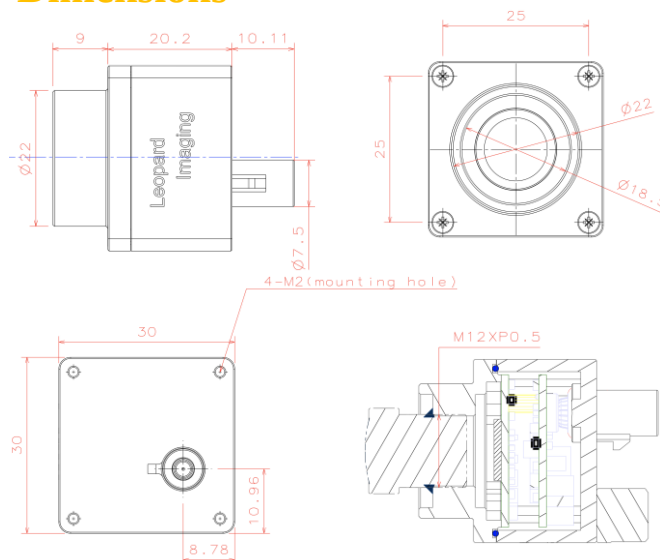
- ON SEMI 1.0 MP AR0144 Sensor
- Optical format: 1/4"
- Maximum resolution: 1280H x 800V
- Pixel size: 3 μ m x 3 μ m
- Output 12 bit Raw data
- Support Global Shutter
- 27MHz clock input
- Support 4 V ~ 7V Power
- Lens: FOV H 40 / 80 / 200
- MAX96705 Serializer
- Connector: FAKRA Z TYPE
- Water proof: 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

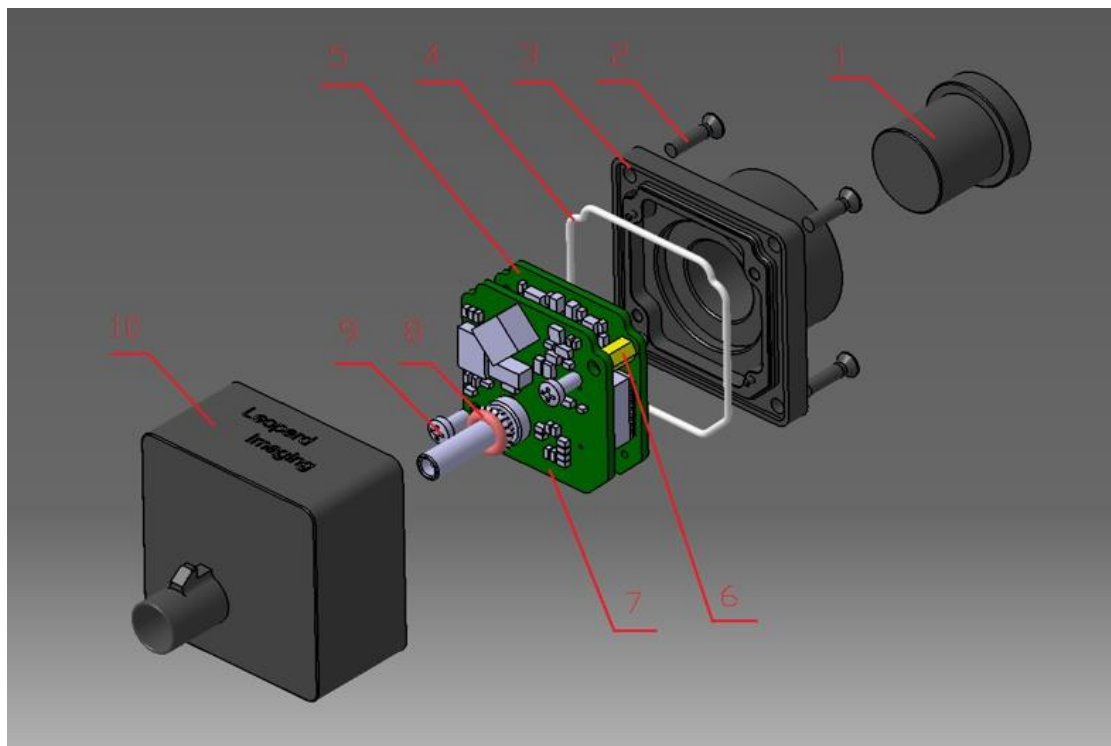


Leopard Imaging Inc.

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

BOM

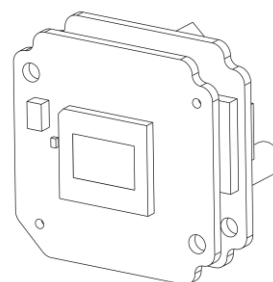
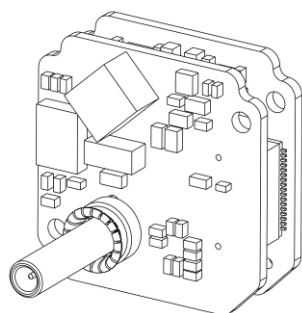
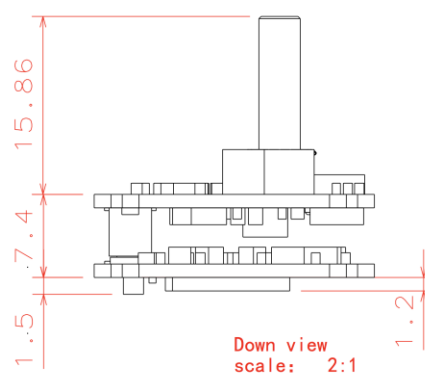
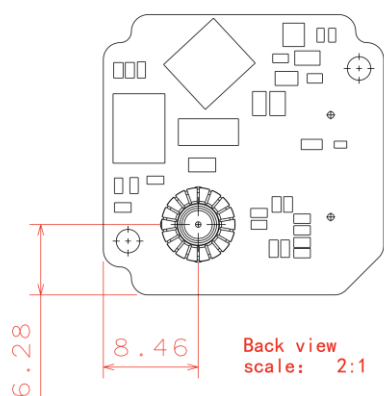
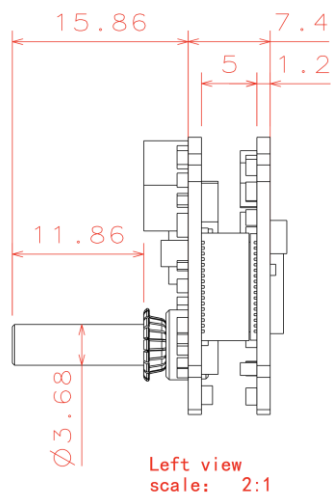
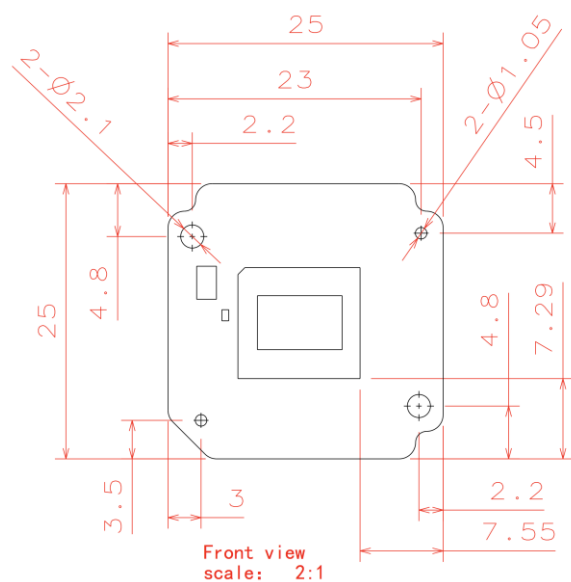
#	Name	SPEC	QTY/SET
1	Lens	M12 lens	1
2	Screw	M2*8 cross flat head black ZINC	4
3	Shell 2	AL6061-T6 BLACK Anodizing	1
4	Sealing ring	Silicon rubber, White	1
5	LI-AR0144-PAR-FKR	AR0144 sensor board	1
6	Copper pillar	M2*5+3	2
7	LI-GMSL-FKR	GMSL board	1
8	O ring	6.5*1.5 Silicon rubber Red	1
9	Screw	M2*4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



Leopard Imaging Inc.

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

Camera boards Dimensions

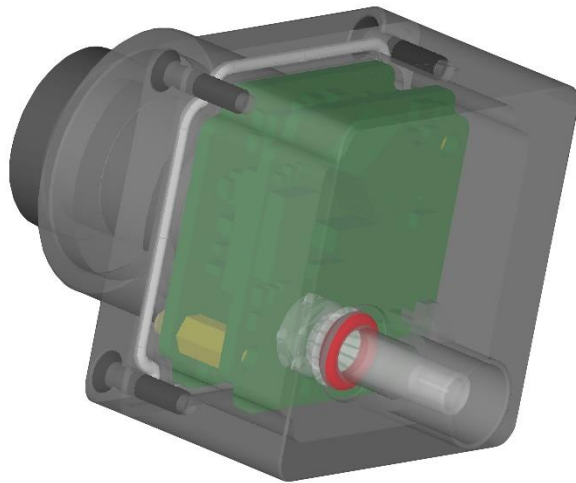


Leopard Imaging Inc.

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

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



Leopard Imaging Inc.

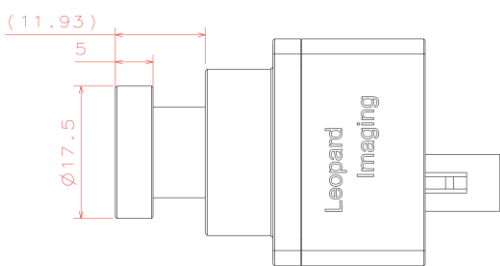
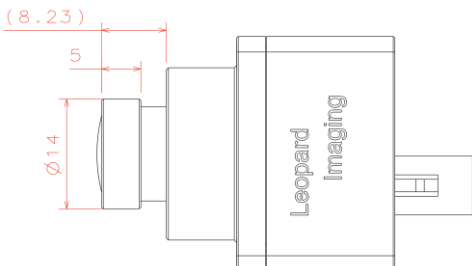
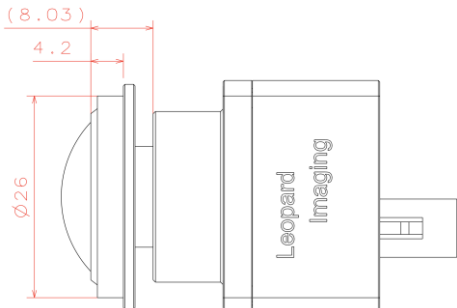
1130 Cadillac Ct., Milpitas, CA 95035, USA
Phone: +1-408-263-0988
Fax: +1-408-217-1960
Email: sales@leopardimaging.com
Website: www.leopardimaging.com

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
		



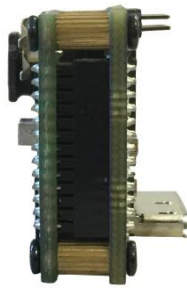
Leopard Imaging Inc.

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

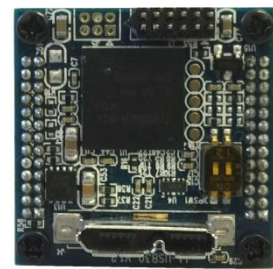
LI-TESTER-NV



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



Leopard Imaging Inc.

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

Revision History

Revision	Description	Release Date
1.0	First Release	8. Oct. 2017
1.1	Update the power consumption	24. Dec. 2017



Leopard Imaging Inc.

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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Leopard Imaging:](#)

[LI-AR0144-GMSL-040H](#) [LI-AR0144-GMSL-200H](#) [LI-USB30-AR0144-GMSL-040H](#) [LI-USB30-AR0144-GMSL-080H](#)
[LI-USB30-AR0144-GMSL-200H](#)