



LEOPARD IMAGING INC

# LI-OV10650-GMSL2-xxxH

## Data Sheet

### Key Features

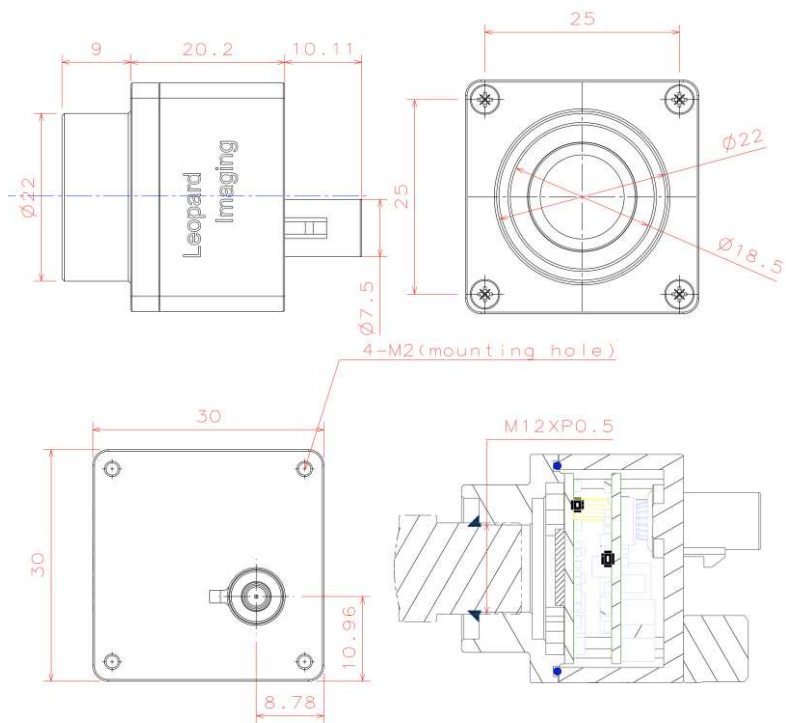
- OmniVision CMOS 1.7M Image Sensor OV10650
- Optical format: 1/2.09"
- Number of active pixels: 1824H x 940V
- Pixel size: 4.2  $\mu\text{m}$  x 4.2  $\mu\text{m}$
- Output 12 bit Raw data
- 27MHz clock input
- Support 12V Power
- Lens: TBD
- GMSL2 Serializer
- Support Nvidia Drive PX2 (TBD)
- Connector: FAKRA Z TYPE
- Water proof: IP67 (Up to IP69K)
- Operation Temp: -40 ~ 85 °C
- Storage Temp: -40 ~ 105 °C
- Size: 30 x 30 x 20.2 mm
- Weight: 45 g
- Part#: **LI-OV10650-GMSL2-xxxH**



### Application

- Autonomous driving
- Camera monitoring system
- Rear view camera

### Dimensions

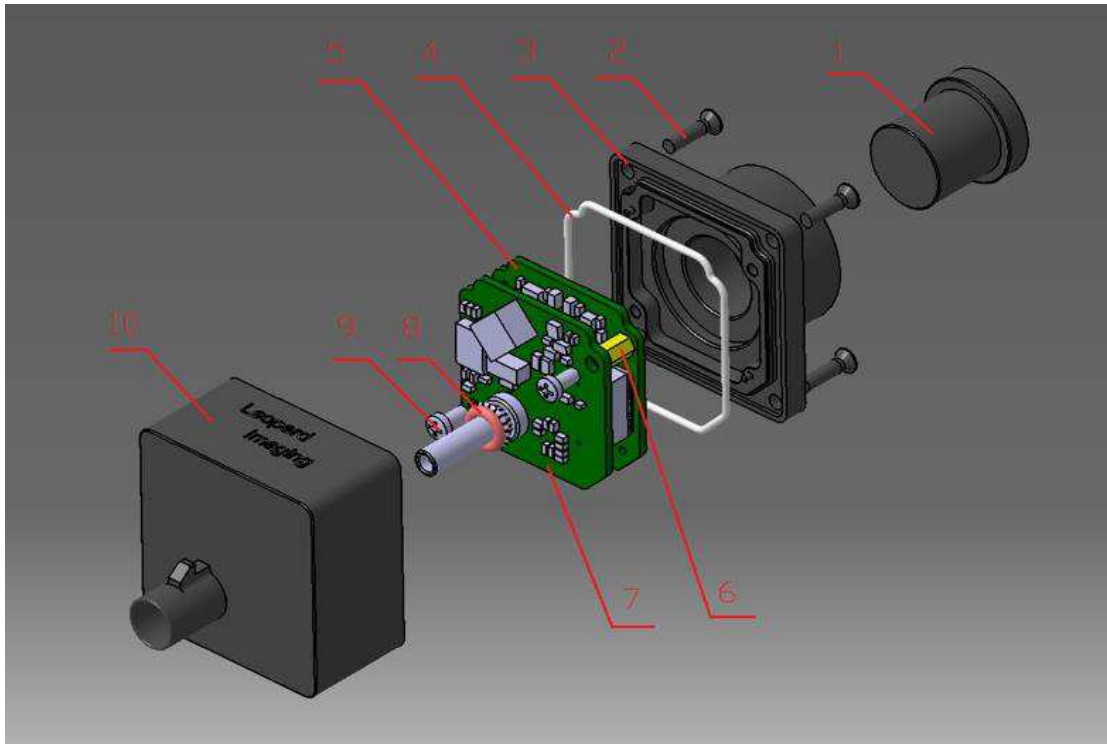


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## BOM

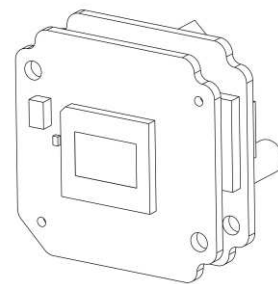
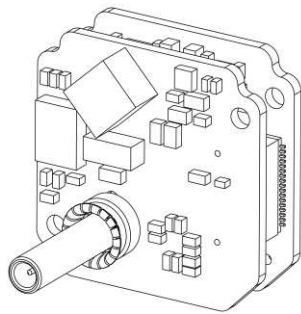
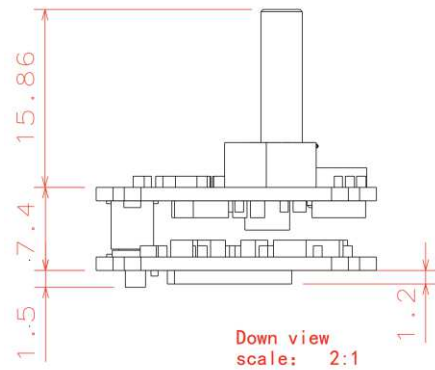
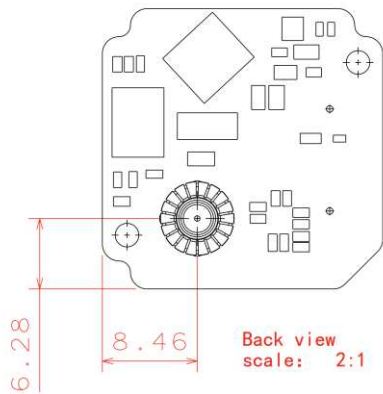
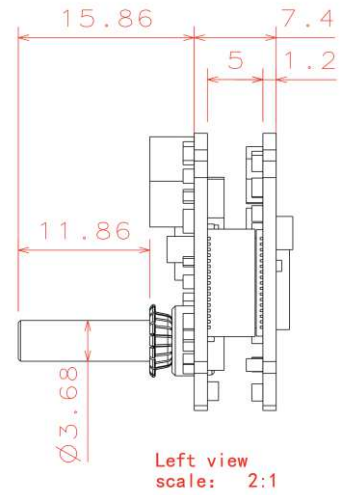
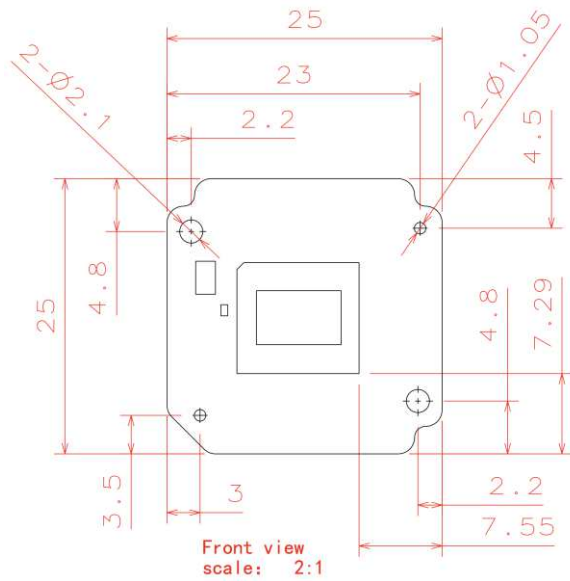
#	Name	SPEC	QTY/SET
1	Lens	M12 lens	1
2	Screw	M2*8 cross flat head black ZINC	4
3	Shell 2	AL6061-T6 BLACK Anodizing	1
4	Sealing ring	Silicon rubber, White	1
5	LI-OV10650-MIPI	OV10650 sensor board	1
6	Copper pillar	M2*5+3	2
7	LI-GMSL2-FKR	GMSL2 board	1
8	O ring	6.5*1.5 Silicon rubber Red	1
9	Screw	M2*4 cross pan head black ZINC	2
10	Shell 1	AL6061-T6 BLACK Anodizing	1



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# Camera boards Dimensions

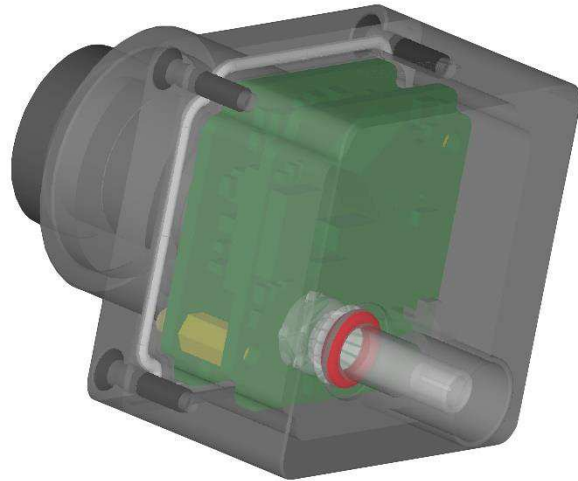


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## Water Proof

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



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## Ordering Information

**Part#: LI-OV10650-GMSL2-xxxH**

Note:

xxxH - 060H: FOV H 60°  
 120H: FOV H 120°  
 200H: FOV H 200°

LI-OV10650-GMSL2-060H	LI-OV10650-GMSL2-120H	LI-OV10650-GMSL2-200H
		
<p>Lens: M127B0618W                      Lens EFL: 6.0 mm                      FOV(D): 74.5°                      FOV(H): 60.6°                      FOV(V): 36.1°</p>	<p>Lens: M128B02820WM12R1                      Lens EFL: 2.8 mm                      FOV(D): 148°                      FOV(H): 122°                      FOV(V): 74°</p>	<p>Lens: F132B0108WM12                      Lens EFL: 1.08 mm                      FOV(D): 200°                      FOV(H): 200°                      FOV(V): 200°</p>
		

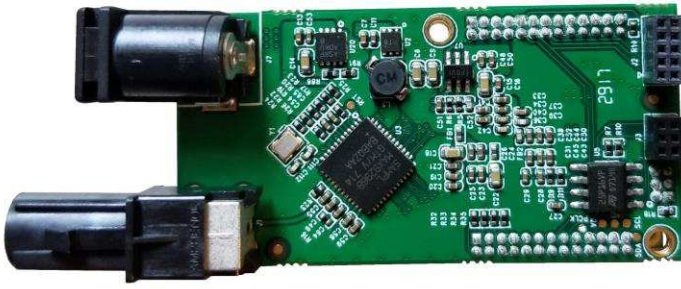


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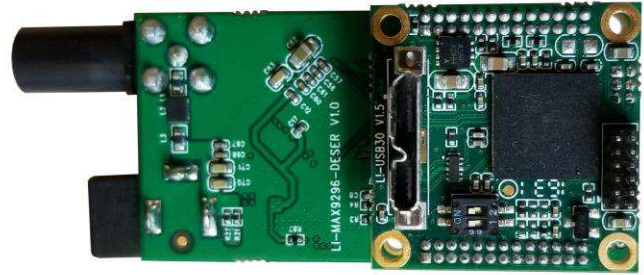


## LI-GMSL2-DESER



Front View

## LI-USB30-CNTL



Back View

LI-OV10650-GMSL2-xxxH can connect to USB 3.0 EVA module as a USB 3.0 camera.  
Part#: **LI-USB30-OV10650-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 1824x940@30fps
- Power consumption: TBD

### SDK Supported

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



## Revision History

Revision	Description	Release Date
1.0	First Release	12. Jan. 2018



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