



LEOPARD IMAGING INC

# LI-IMX424-GMSL2-xxxH

## Data Sheet

### Key Features

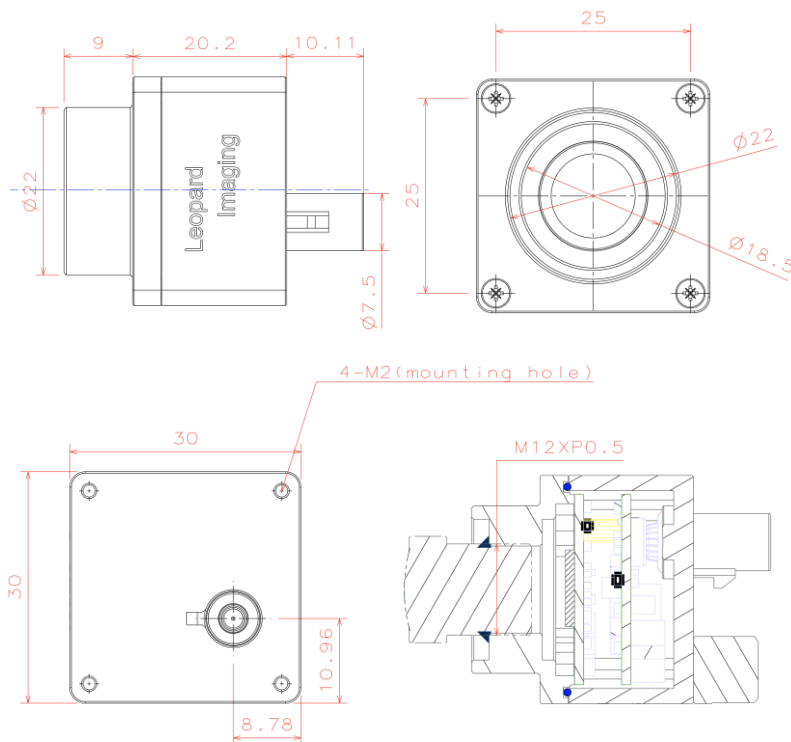
- Sony Diagonal 9.69mm (Type 1/1.7) CMOS Image Sensor IMX424
- Optical format: 1/1.7"
- Number of active pixels: 3849H x 1929V
- Pixel size: 2.25  $\mu\text{m}$  x 2.25  $\mu\text{m}$
- Output 12 bit Raw data
- Support 12V Power
- Lens: FOV H 40 / 65 / 120
- GMSL2 Serializer
- Connector: FAKRA Z TYPE
- Water proof: IP67
- Operation Temp: -40 ~ 85  $^{\circ}\text{C}$
- Storage Temp: -40 ~ 125  $^{\circ}\text{C}$
- Size: 30 x 30 x 29.2 mm
- Weight: 45 g
- Part#: **LI-IMX424-GMSL2-xxxH**



### Application

- Automotive ADAS
- Automotive Rear View or Backup

### Dimensions

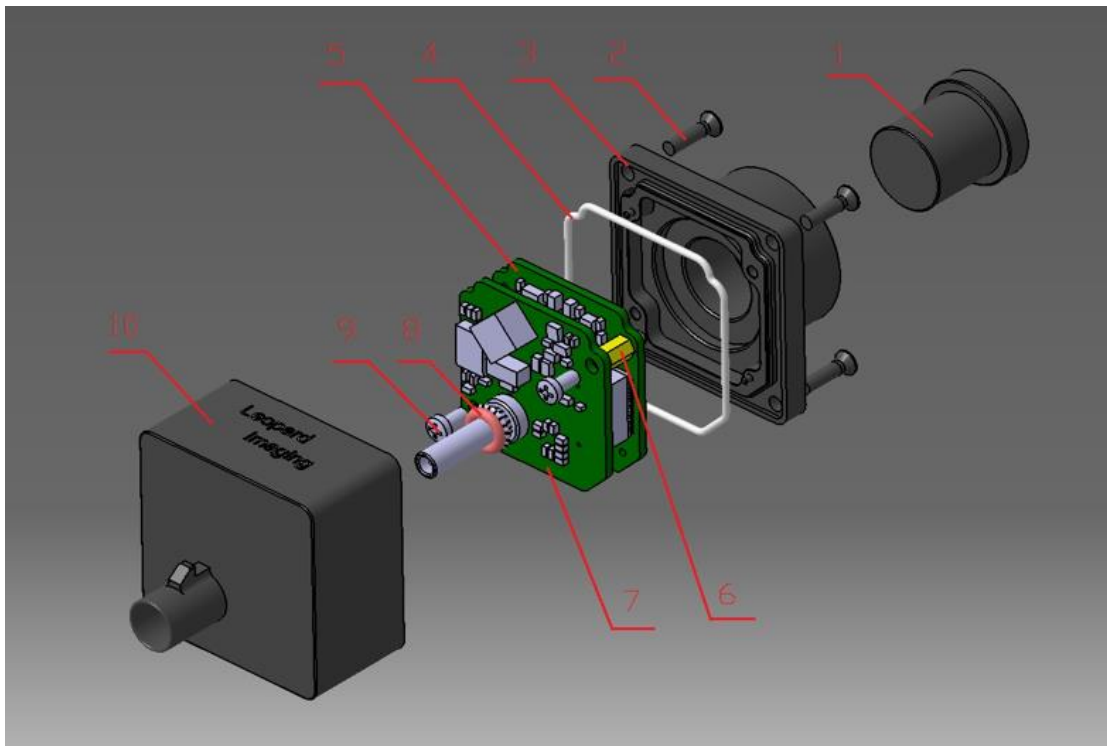


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## BOM

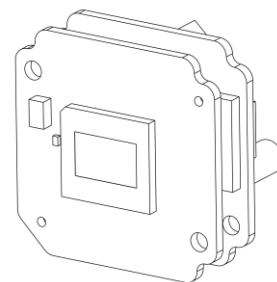
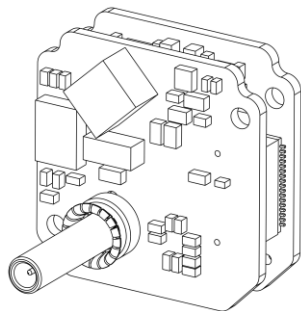
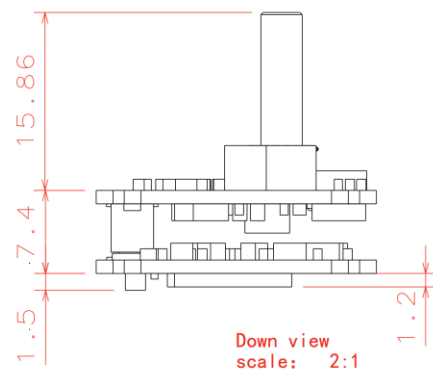
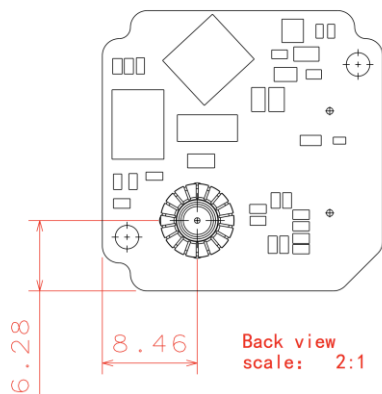
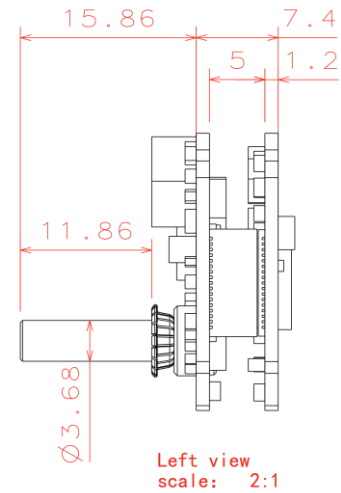
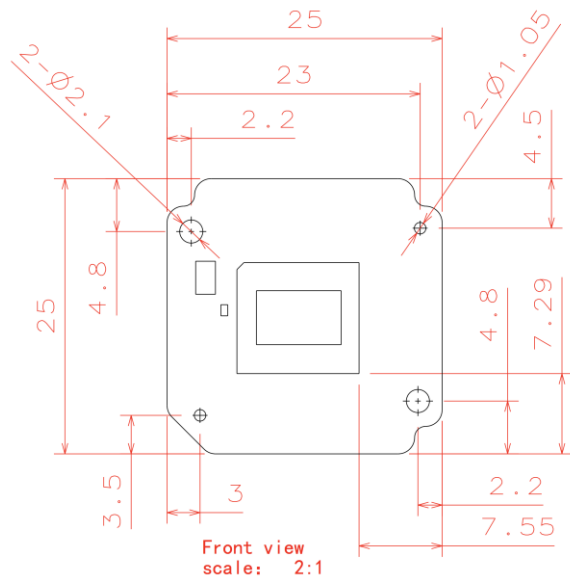
| #  | Name               | SPEC                            | QTY/SET |
|----|--------------------|---------------------------------|---------|
| 1  | Lens               | DSL612<br>DSL608<br>Car-53      | 1       |
| 2  | Screw              | M2*8 cross flat head black ZINC | 4       |
| 3  | Shell 2            | AL6061-T6 BLACK Anodizing       | 1       |
| 4  | Sealing ring       | Silicon rubber, White           | 1       |
| 5  | LI-IMX424-MIPI-FKR | IMX424 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

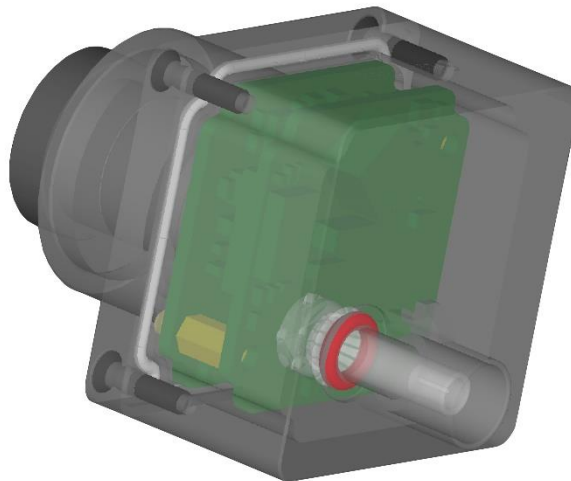


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## Water Proof

- 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



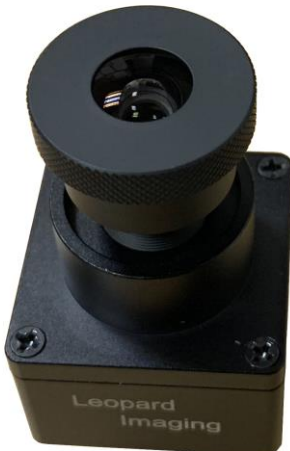
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## Ordering Information

Note:

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

| LI-IMX424-GMSL2-040H                                                                                       | LI-IMX424-GMSL2-065H                                                                                        | LI-IMX424-GMSL2-120H                                                                                             |
|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
|                          |                           |                              |
| Lens: DSL612<br>Lens EFL: 11.9 mm<br>F/#: 2.0<br>FOV(D): 44.5°<br>FOV(H): 39°<br>FOV(V): 20°<br>Mount: M12 | Lens: DSL608<br>Lens EFL: 7.9 mm<br>F/#: 2.0<br>FOV(D): 71.5°<br>FOV(H): 64.5°<br>FOV(V): 32°<br>Mount: M12 | Lens: CAR-53<br>Lens EFL: 4.47 mm<br>F/#: 1.6<br>FOV(D): 133.6°<br>FOV(H): 118.7°<br>FOV(V): 52.2°<br>Mount: M16 |

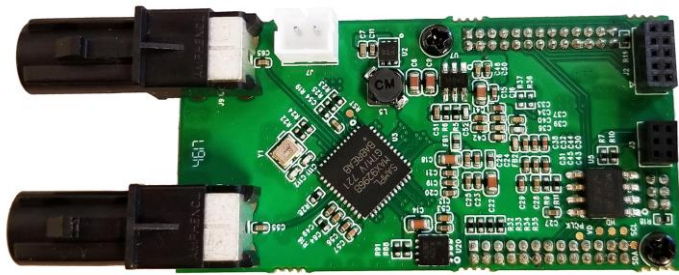


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# LI-USB30-IMX424-GMSL2-xxxH

## LI-GMSL2-DESER



Front View

## LI-USB30-CNTL



Back View

LI-IMX424-GMSL2-xxxH can connect to USB 3.0 EVA module as a USB 3.0 camera.  
Part#: **LI-USB30-IMX424-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 3840x1928
- Power consumption: Approx. 91mA 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                  | 17. Aug. 2018 |
| 1.1      | Update lens information        | 24. Aug. 2018 |
| 1.2      | Update the 120H lens to CAR-28 | 29. Apr. 2019 |
| 1.3      | Add DSL608 and DSL612 lens     | 6. Aug. 2019  |



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