LI-IMX224-GMSL2-xxxH
Data Sheet

Key Features

▪ Sony Diagonal 6.09 mm (Type 1/3) CMOS Image Sensor IMX224
▪ Optical format: 1/3"
▪ Number of active pixels: 1280H x 960V
▪ Pixel size: 3.75 um x 3.75 um
▪ Output 12 bit Raw data
▪ 27MHz clock input
▪ Support 12V Power
▪ Lens: FOV H 50 / 100
▪ GMSL2 Serializer
▪ Connector: FAKRA Z TYPE
▪ Water proof: IP67
▪ Operation Temp: -30 ~ 85 ℃
▪ Storage Temp: -40 ~ 85 ℃
▪ Size: 30 x 30 x 29.2 mm
▪ Weight: 45 g
▪ Part#: LI-IMX224-GMSL2-xxxH

Application

▪ Automotive ADAS
▪ Automotive Rear View or Backup

Dimensions

Leopard Imaging Inc.

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Email: sales@leopardimaging.com
Website: www.leopardimaging.com
## BOM

<table>
<thead>
<tr>
<th>#</th>
<th>Name</th>
<th>SPEC</th>
<th>QTY/SET</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Lens</td>
<td>M12 lens</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>Screw</td>
<td>M2*8 cross flat head black ZINC</td>
<td>4</td>
</tr>
<tr>
<td>3</td>
<td>Shell 2</td>
<td>AL6061-T6 BLACK Anodizing</td>
<td>1</td>
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<tr>
<td>4</td>
<td>Sealing ring</td>
<td>Silicon rubber, White</td>
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<tr>
<td>5</td>
<td>LI-IMX224-MIPI-FKR</td>
<td>IMX224 sensor board</td>
<td>1</td>
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<tr>
<td>6</td>
<td>Copper pillar</td>
<td>M2*5+3</td>
<td>2</td>
</tr>
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<td>7</td>
<td>LI-GMSL2-FKR</td>
<td>GMSL2 board</td>
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<tr>
<td>8</td>
<td>O ring</td>
<td>6.5*1.5 Silicon rubber Red</td>
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<tr>
<td>9</td>
<td>Screw</td>
<td>M2*4 cross pan head black ZINC</td>
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<td>10</td>
<td>Shell 1</td>
<td>AL6061-T6 BLACK Anodizing</td>
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</tbody>
</table>
Camera boards Dimensions
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
Ordering Information

Part#: LI-IMX224-GMSL2-xxxH

Note:

xxxH - 050H: FOV H 50°
100H: FOV H 100°

<table>
<thead>
<tr>
<th>LI-IMX224-GMSL2-050H</th>
<th>LI-IMX224-GMSL2-100H</th>
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<tbody>
<tr>
<td>Lens: M127B0618W</td>
<td>Lens: M128B02820WM12R1</td>
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<tr>
<td>Lens EFL: 6.0 mm</td>
<td>Lens EFL: 2.8 mm</td>
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<tr>
<td>FOV(D): 67°</td>
<td>FOV(D): 130°</td>
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<tr>
<td>FOV(H): 52°</td>
<td>FOV(H): 102°</td>
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<tr>
<td>FOV(V): 38.5°</td>
<td>FOV(V): 76.5°</td>
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</table>
LI-USB30-IMX224-GMSL2-xxxH can connect to USB 3.0 EVA module as a USB 3.0 camera.
Part#: LI-USB30-IMX224-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 1317x977 @ 30fps
- Power consumption: TBD
- Support Windows, Linux OS and other OS which includes the 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

<table>
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<th>Revision</th>
<th>Description</th>
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<tr>
<td>1.0</td>
<td>First Release</td>
<td>11. Jan. 2018</td>
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<tr>
<td>1.1</td>
<td>Update the lens information</td>
<td>22. Jun. 2018</td>
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