



LEOPARD IMAGING INC

# LI-VG5761-GMSL2-DMS

## Data Sheet

### Key Features

- ST 2.3M HDR Global Shutter Image Sensor VG5761
- Optical format: 1/2.5"
- Maximum resolution: 1944H x 1204V
- Pixel size: 3.2  $\mu\text{m}$  x 3.2  $\mu\text{m}$
- RAW output without compression
- Monochrome sensor
- Global shutter
- Lens: TBD
- Includes 940nm +/- 50nm IR filter
- 940nm Multimode VCSEL included
- GMSL2 MAX9295 Serializer
- Connector: FAKRA Z TYPE
- Operation Temp: -40 ~ 85 °C (ambient)  
-40 ~ 105 °C (junction)
- Dimensions: 82mm x 67mm x 25mm
- Weight: 220g
- Part#: **LI-VG5761-GMSL2-DMS**



### Application

- Autonomous driving
- DMS application
- IR application

### VCSEL

- Part#: I940-A2332-NBC-D1-90B70R
- Wave Length: 940nm
- Optical Power: 4.5W
- FOI: 90 deg (H) x 70 deg (V)

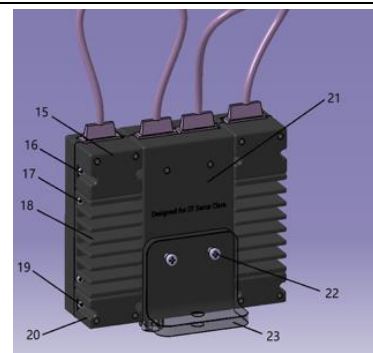
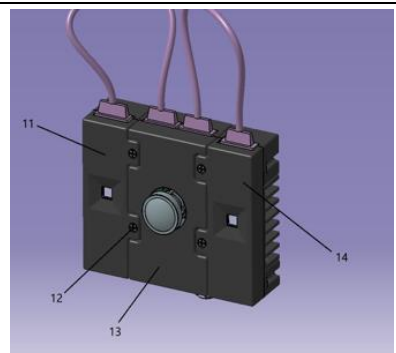
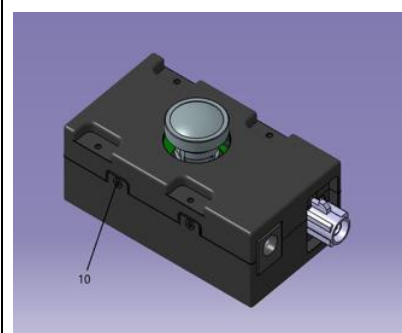
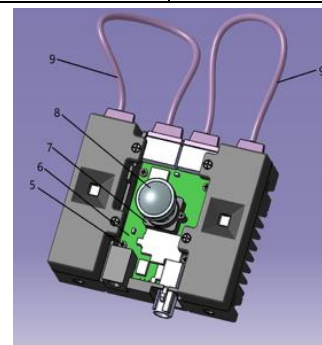
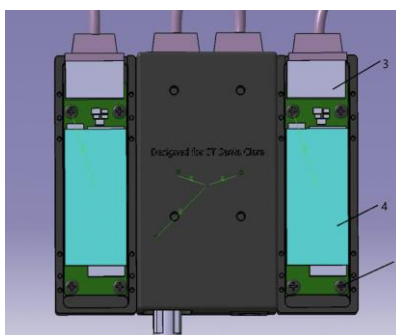
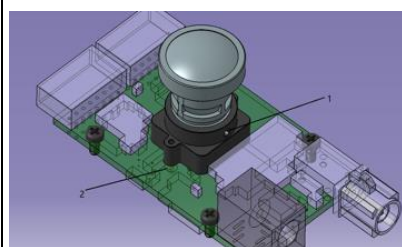


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# BOM

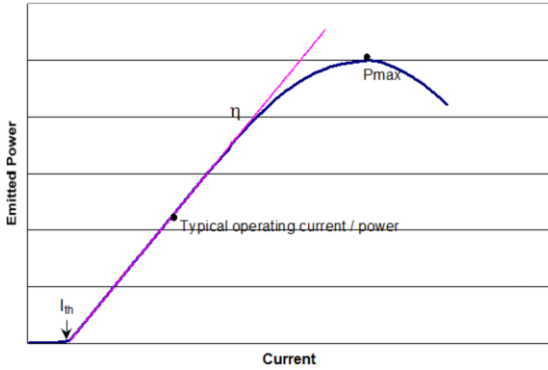
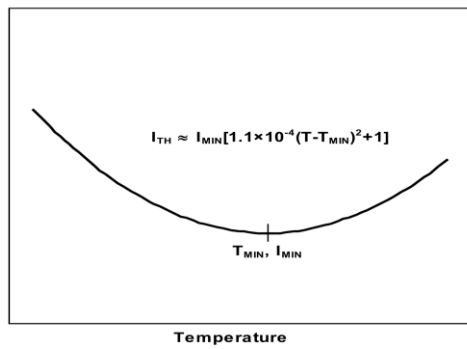
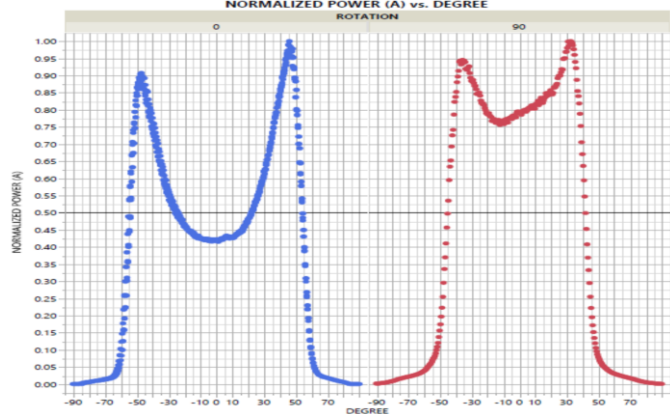
#	Material Number	Description	QTY/SET
1	10.04.C020030HABL	M2x3 set screw, black	1
2	10.02.C014050PR4NL	M1.4x5 screw	2
3	LI-ST-LD V1.0	LED BOARD	2
4	10.09.ST5761-H-00	Heat Sink Gasket, 35x16x1.5mm	2
5	10.02.C020040PA4ZL	PM2x4 screw, black	12
6	LI-VG5761-MAX9295-ST V1.0	sensor board	1
7	08.04.LI-M12-155-L-01	Lens holder	1
8	TBD	lens	1
9	APAPA22K51	cable	10
	PHDR-14VS	Connector	4
10	10.02.S016050SB4S0	M1.6x5 screw	4
11	10.09.ST5761-02-00	Left front LED shell	1
12	10.02.C020050SA4ZF	M2x5 shell screw2	4
13	10.09.ST5761-01-00	Middle front shell	1
14	10.09.ST5761-06-00	Right front LED shell	1
15	10.09.ST5761-03-00	LED box up rear shell	2
16	10.02.C014060PR4NL	M1.4x6 shell screw3	4
17	10.02.C014060PR4NL	M1.4x6 shell screw4	8
18	10.09.ST5761-H-00	heat sink	2
19	10.02.C014060PR4NL	M1.4x6 shell screw3	4
20	10.09.ST5761-04-00	LED box down rear shell	2
21	10.09.ST5761-05-00	Middle rear shell	1
22	10.02.S025060PB4S0	M2.5x6 bracket screw	2
23	10.09.ST5761-L-00	bracket	1



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# 940nm VCSEL

940nm High Power VCSEL Die in Ceramic Package with Diffuser	
Part#	HVS7000-004
Features	<ul style="list-style-type: none"> <li>940nm Multimode VCSEL</li> <li>Oxide Isolation Technology</li> <li>High Efficiency</li> <li>10um aperture, 30micron pitch, 537 emitters in a 3.5x3.5x1.6mm package with a 110x85 Deg Diffuser</li> </ul>
Typical Performance Curves	<p><b>Emitted Power vs. Current:</b> Power varies approximately linearly with current above threshold.</p>  <p><b>Threshold Current vs. Temperature:</b> Threshold current varies parabolically with temperature; thus it can be nearly constant for a limited temperature range.</p>  <p><b>FOV (Taken with Goniometer)</b></p> 

**NOTE:** Do not place this demo module within 0.2 meter from human eye to avoid the hazard by VCSEL.



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## LI-USB30-DESER-GMSL2



LI-VG5761-GMSL2-DMS can connect to LI-USB30-DESER-GMSL2 as a USB 3.0 camera.

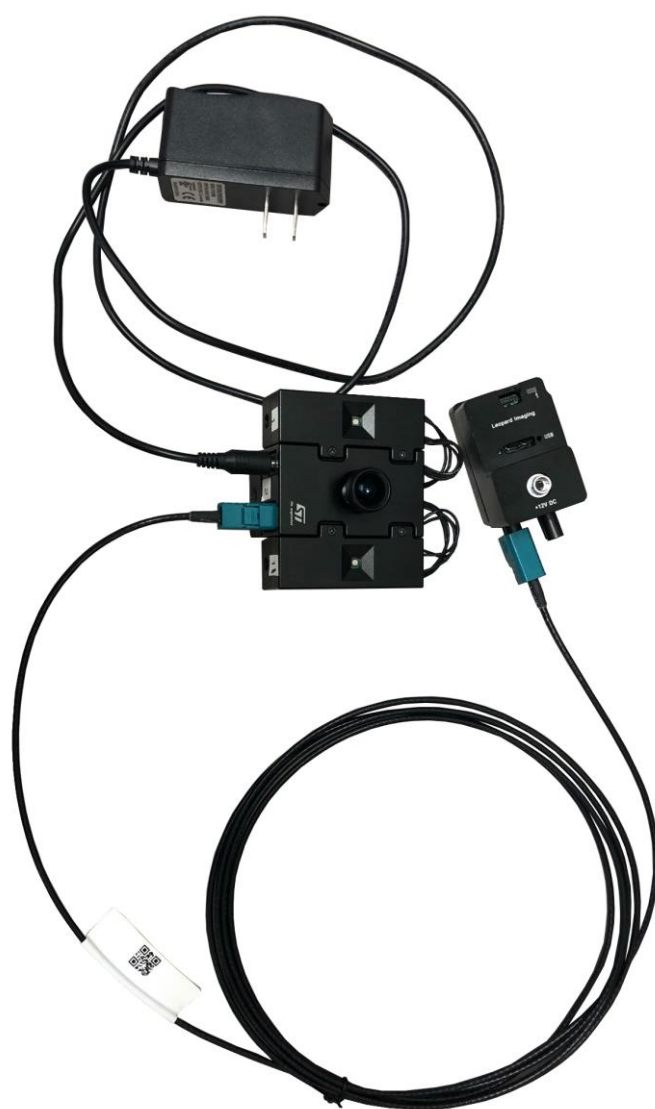
Part#: **LI-USB30-VG5761-GMSL2-DMS**

### Key Features

- USB 3.0 Super Speed support
- RAW output without compression
- UVC compliance
- Provide customization services
- 12VDC Power Supply for Camera
- Weight: 353g
- Single Coax Cable transmit up to 12 meter PoC(Power over Cable)
- Resolution: TBD
- Power Consumption: TBD
- Support Windows, Linux and other OS which includes the UVC drivers

### SDK Supported

- Camera Tool Source Code in C#
- Capture & Display



## Revision History

Revision	Description	Release Date
1.0	First Release	26. Sep. 2019



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