SG5-IMX490C-5300-GMSL2-Hxxx

5MP GMSL2 CAMERA

SENSING
森云智能

✏️ GENERAL DESCRIPTION

The camera is equipped with SONY Semiconductor CMOS image sensor IMX490 and Maxim GMSL2 . It has an automotive-grade sensor with a well-tuned Image Signal Processor (ISP) that produces exceptional image quality, which comes with an IP67-rated enclosure – is supplied with an M12/M14/M15/M16 lens that is focused and glued in our factory.

⊞ KEY PARAMETERS

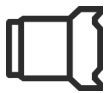|	
Sensor	SONY 5.44MP IMX490 RGGB
ISP	GW5300
Image Size	1/1.55 inch CMOS
Output Pixels	2880H*1860V
Pixel Size	3um*3um
Frame Rate	2880*1860@30fps
HDR Support	Yes
LFM	Yes
Output data	YUV422@8bit
Serializer	MAXIM MAX9295A
Camera Interface	GMSL2
Power Supply	9~16V POC
Current	<300mA@12VDC
Connector	Amphenol Fakra（Z Code）
Operating temp. range	-40~+85℃
Dimensions	W: 40mm, L:40mm, H:23mm
Weight	<80g

👁 Features

- Output format: Uncompressed YUV422 format
- S-mount IP67/IP69K compliant lens focused and glued at our factory
- Multi−Camera synchronization Support
- Support different focal length lens
- FCC , CE and RoHS

📦 Application

- Automotive
- ADAS + Viewing Fusion
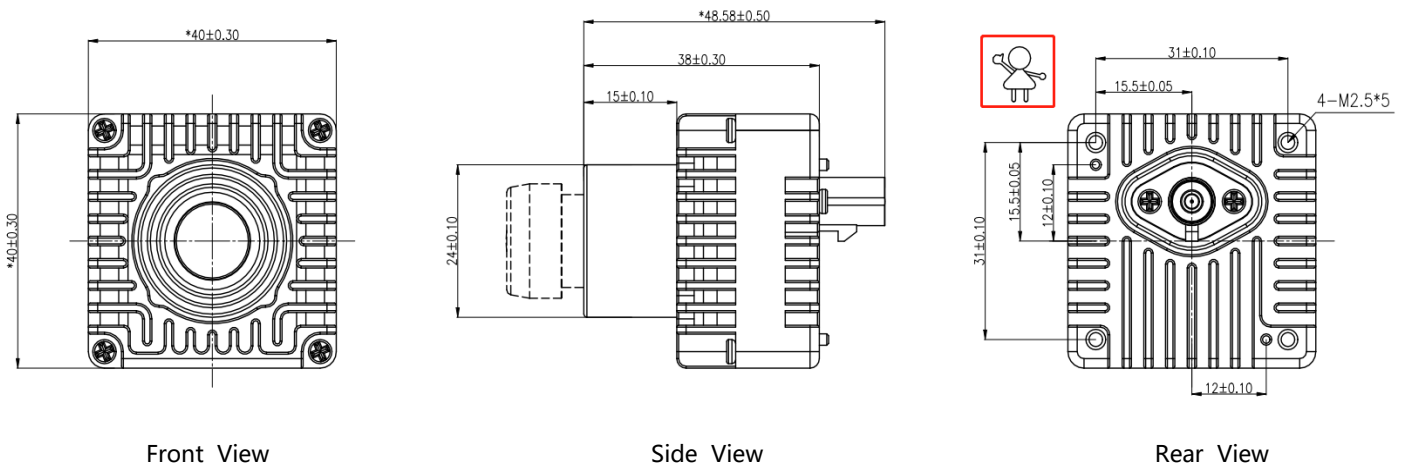- High Dynamic Range Imaging
- Autonomous Driving
- Robots

MODEL AND LENS

Model	HFOV	VFOV	F.No	EFL	Max Optical Distortion	Water-proof	Lens Mount
SG5-IMX490C-5300-GMSL2-H30S1	32°	21°	1.6	15.3mm	-2.7%	IP67	M16
SG5-IMX490C-5300-GMSL2-H60S	64°	40°	1.8	7.87mm	-14%	IP67	M12
SG5-IMX490C-5300-GMSL2-H100Y	100°	57°	1.8	6.16mm	-32%	IP69K	M15
SG5-IMX490C-5300-GMSL2-H110S	114°	74°	2.8	4.3mm	-49.18%	IP67	M14

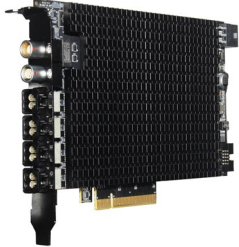## DIMENSIONS

Front View

Side View

Rear View

Note:

This icon indicates the imaging direction is positive.

Dimension

PLATFORMS SUPPORT

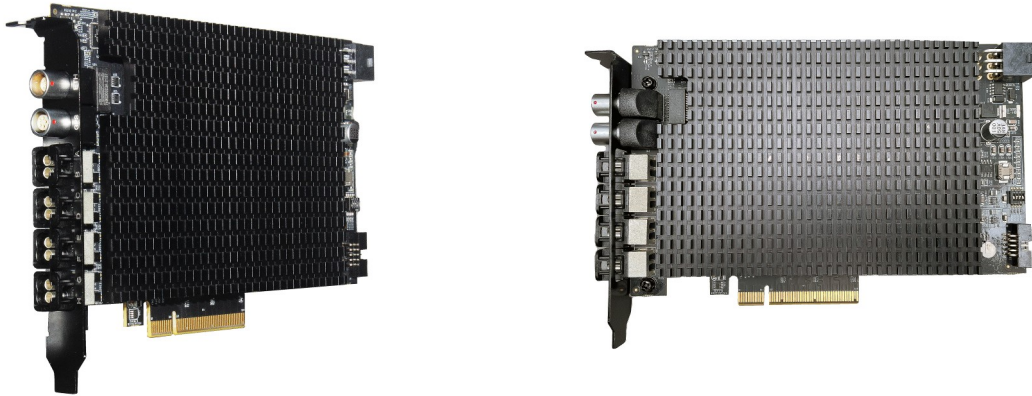| Platforms	Product Link
NVIDIA Jetson platforms	Provide development driver package https://www.sensing-world.com/jetson_camera_ecosystem
SerDes Camera to USB Converter	Not support
CoaxCapture II GMSL Capture Card	Provide development driver package https://www.sensing-world.com/Coaxcapture_Card

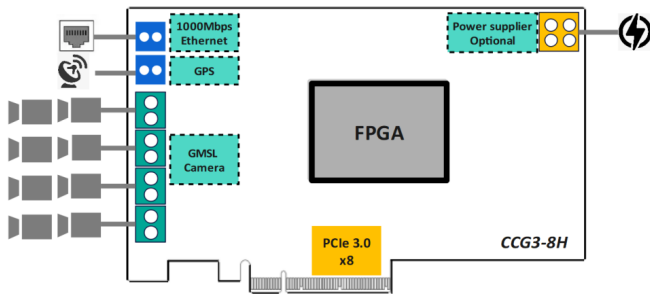※ For development support, please contact Sales@sensing-wolrd.com ;

DEVELOPMENT KIT

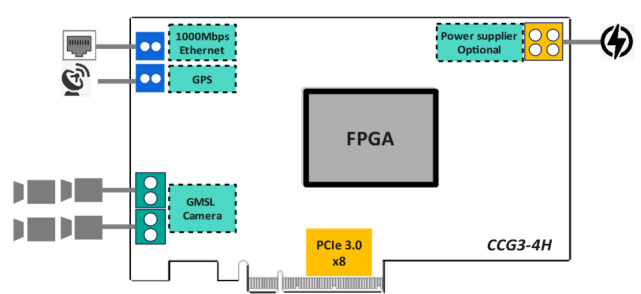◇ **GMSL Video capture card（Gen2）**

- SG5-IMX490C-5300-GMSL2 can connect to **CCG3-4H/8H** .

◇ **KEY FEATURES**

→ CCG3-8H at most can support connect 8* SG5-IMX490C-5300-GMSL2 at the same time；

→ CCG3-4H at most can support connect 4* SG5-IMX490C-5300-GMSL2 at the same time；

→ PCI-e Gen3*8lane and supports x86 architecture;

→ Support external trigger synchronization;

→ Support GPS Timing synchronization;

→ Support network PTP timing synchronization;

CCG3-8H

CCG3-4H

ACCESSORIES

◇ Coaxial Cable

Product Name	Order PN#	Specification
Mini-fakra Coaxial Cable 4-in-1（TE）	T4JC-JS-ZZZZ-0500A	Mini-fakra, 4 in 1, 0.5m, Male to Female
Mini-fakra Coaxial Cable 4-in-1(Rosenberg)	R4PC-JS-ZZZZ-0500L	Mini-fakra, 4 in 1, 0.5m, Male to Female
Mini-fakra Coaxial Cable 4-in-1(Rosenberg)	R4JC-JS-ZZZZ-0500L	Mini-fakra, 4 in 1, 0.5m, Female to Female
Camera coaxial Cable	SG-JSZPSZ2000L	2M, Male to Female, IP67
Camera coaxial Cable	SG-JSZJSZ2000L	2M, Female to Female, IP67
Camera coaxial Cable	SG-JSZPSZ3000L	3M, Male to Female, IP67
Camera coaxial Cable	SG-JSZJSZ3000L	3M, Female to Female, IP67
Camera coaxial Cable	SG-JSZPSZ5000L	5M, Male to Female, IP67
Camera coaxial Cable	SG-JSZJSZ5000L	5M, Female to Female, IP67
Camera coaxial Cable	SG-JSZJSZ7000L	7M, Female to Female, IP67
Camera coaxial Cable	SG-JSZJSZ8000L	8M, Female to Female, IP67
Camera coaxial Cable	SG-JSZPSZL100L	10M, Male to Female, IP67
Camera coaxial Cable	SG-JSZJSZL100L	10M, Female to Female, IP67
Camera coaxial Cable	SG-JSZJSZL120L	12M, Female to Female, IP67
Camera coaxial Cable	SG-JSZJSZL160L	16M, Female to Female, IP67
Camera coaxial Cable	SG-JSZJSZL200L	20M, Female to Female, IP67

✎ REVISION HISTORY

版本	描述	日期
Rev1	First release	Oct 2020
Rev2	→ Update the connector description → Update the cable description → Add a system block diagram → Add supporting platforms and development tools	Mar 2023

Contact Us

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