

JV8-ISX028C-G2G-Hxxx

8MP GMSL2 CAMERA

GENERAL DESCRIPTION

The camera is equipped with the SONY ISX028 automotive-grade CMOS image sensor and Maxim GMSL2 serializer. It features a well-tuned Image Signal Processor (ISP) that delivers exceptional image quality. Housed in an IP67-rated enclosure, the camera is supplied with an AA lens that is precisely focused and factory-glued to ensure stability and performance.

KEY PARAMETERS



Sensor	SONY 8.39MP ISX028 RGGB
ISP	built-in
Image Size	1/1.72 inch CMOS
Output Pixels	3840H*2160V
Pixel Size	2.1um*2.1um
Frame Rate	30FPS
HDR Support	Yes
LFM	Yes
Output data	YUV
Serializer	MAXIM MAX96717
Camera Interface	GMSL2
Power Supply	9~16V POC
Current	<400mA@12VDC
Connector	Amphenol (Z Type Fakra)
Operating temp. range	-40~+85°C
Dimensions	W: 30mm, L:30mm, H:22.5mm
Weight	<100g

Features

- Output format YUV422
- Multi-Camera synchronization
- Multiple FOV options available
- RoHS

Application

- Automation
- Adas Multi-sensor fusion
- High Dynamic Range Imaging
- Autonomous Driving
- Robotics





HARDWARE SETTING

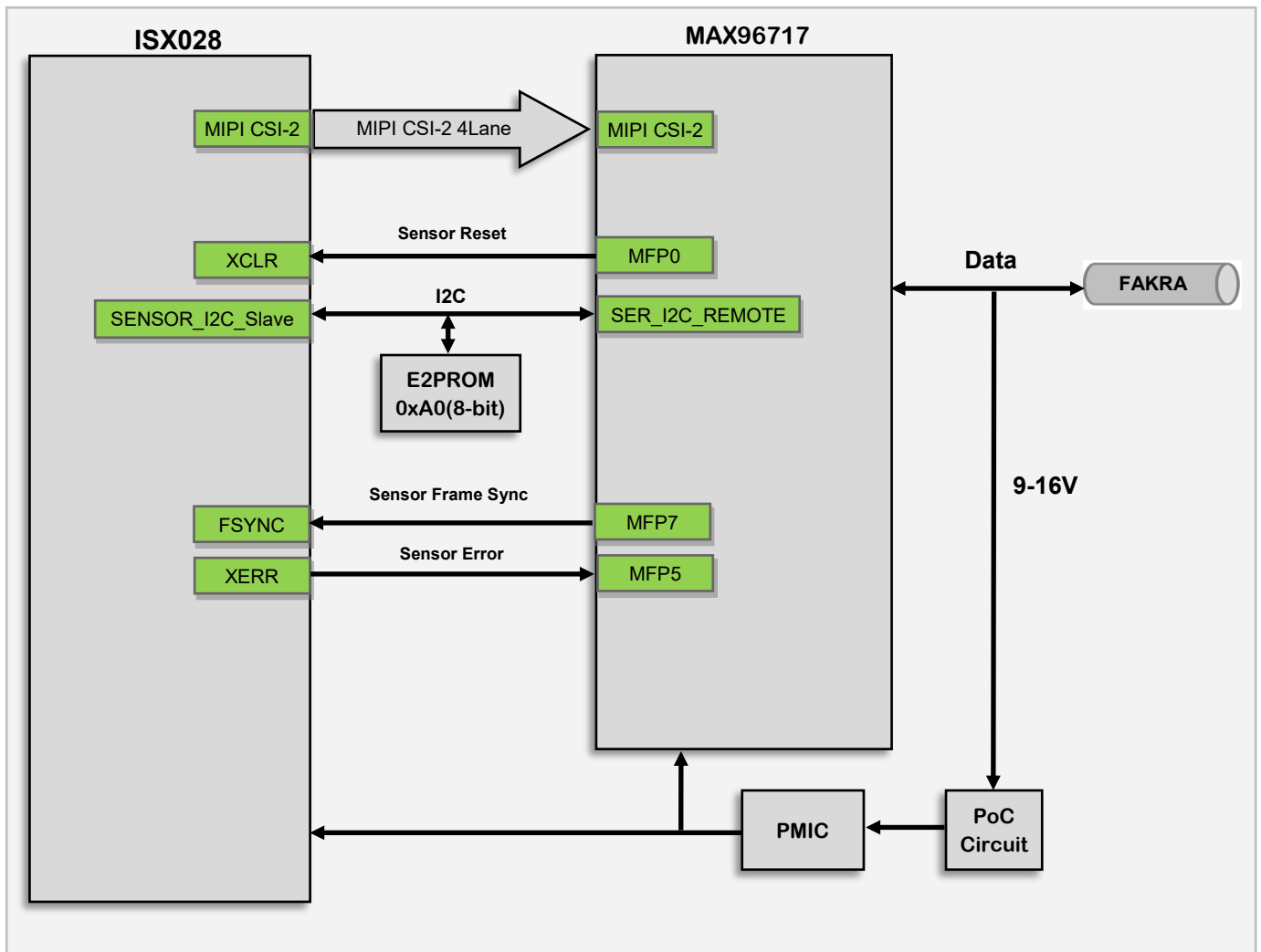
Serializer	
Model	Max96717
I2C Address	0x80(8bit address)
Rate	GMSL2 (6G bps)

Sensor	
Model	ISX028
I2C Address	0x34 (8bit address)
Frame Sync	Controlled by MAX96717 MFP7
Reset	Controlled by MAX96717 MFP0
Error	MAX96717 MFP5





BLOCK DIAGRAM



Block Diagram

※ The camera module has an integrated ISP image sensor, which outputs YUV data. There is need to configure an image sensor at the backend, and the SerDes needs to be configured too;

※ If you need the SerDes setting code, please visit the Sensing Cloud Service Platform at the following URL: <http://service.sensing-world.com/>

※ The camera module supports the storage of camera intrinsic parameters.





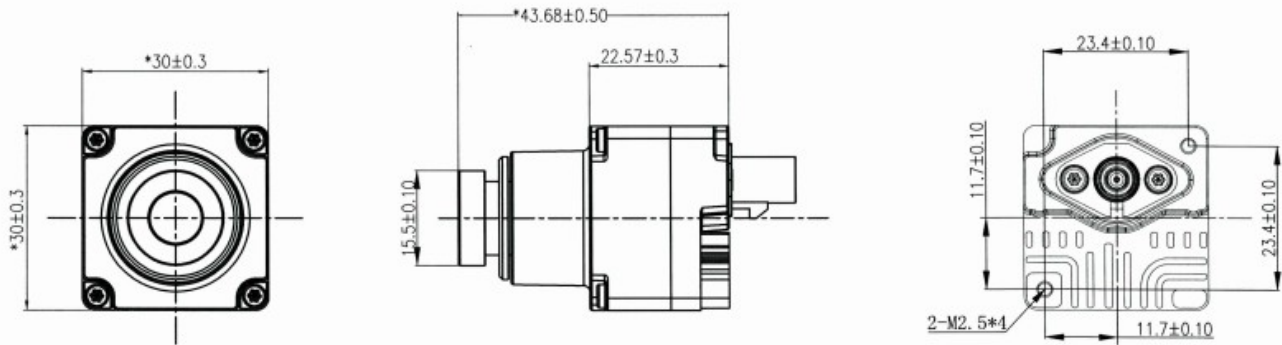
MODEL AND LENS

Model	HFOV	VFOV	F.No	EFL (mm)	DOF	Max Optical Distortion	Water proof	Lens Mount
JV8-ISX028C-G2G-H30YA	30°	17°	1.6	15.34	17.2-INF Focus at 36m	-2.7%	IP67	AA
JV8-ISX028C-G2G-H60SA	60°	33°	1.8	7.87	4.1m-INF Focus at 8.2m	-14%	IP67	AA
JV8-ISX028C-G2G-H120YA	120°	66°	1.6	4.01	1.3m-INF Focus at 3m	-57.9%	IP67	AA

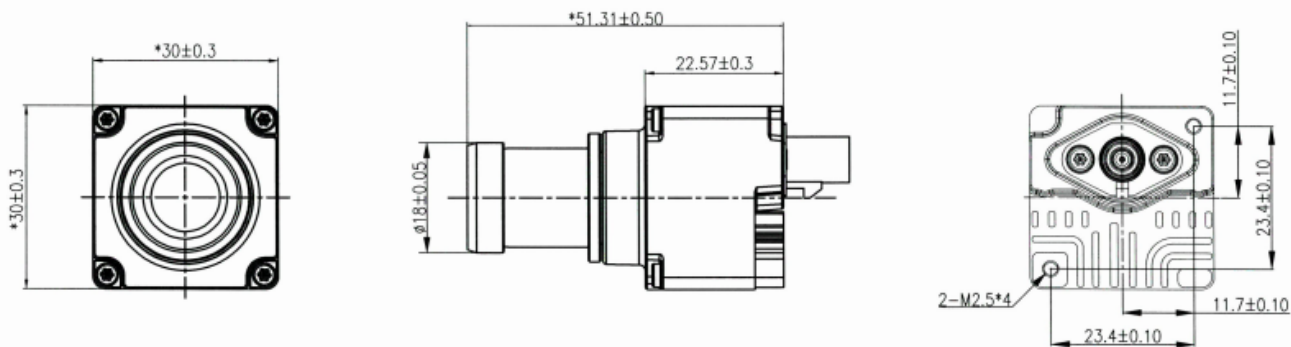


DIMENTIONS

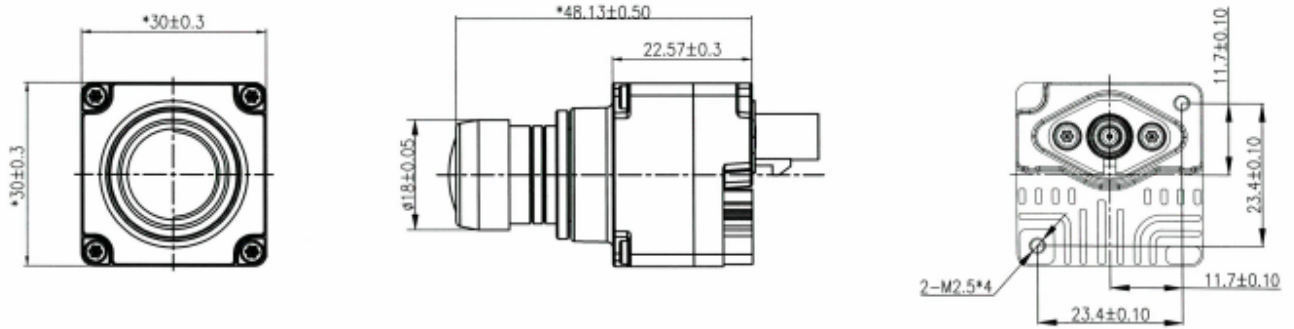
JV8-ISX028C-G2G-H30YA



JV8-ISX028C-G2G-H60SA



JV8-ISX028C-G2G-H30YA



Note:

△ Please visit the Sensing Cloud Service Platform to obtain the relevant materials. The website address is... : <http://service.sensing-world.com/>

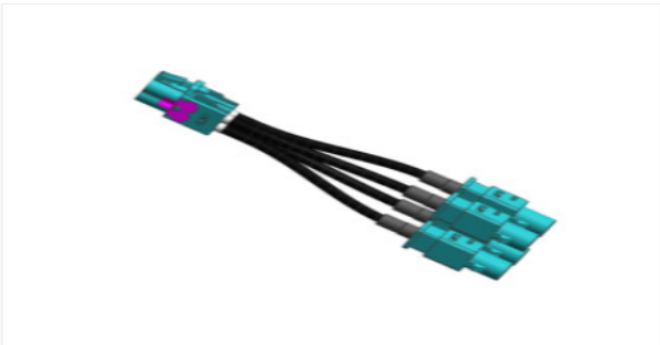


This icon indicates the imaging direction is positive.



COAXIAL CABLE

Name	Model	Specifications
Mini-fakraCoaxialCable4-in-111 (Rosenberg)	R4JC-JC-ZZZZ-0500L	Mini-fakra, 4-in-1, 0.5m, Female to Female
Mini-fakra Coaxial Cable4-in-1 (TE)	T4JC-PC-ZZZZ-0500A	Mini-fakra, 4-in-1, 0.5m, Male to Female
Mini-fakraCoaxial Cable4-in-1(Rosenberg)	R4JC-PC-ZZZZ-0500L	Mini-fakra, 4-in-1, 0.5m, Male to Female
Mini-fakra Coaxial Cable4-in-1 (TE)	T4JC-JC-ZZZZ-0500A	Mini-fakra, 4-in-1, 0.5m, Female to Female
CameraCoaxial Cable	SG-JSZPSZ2000L	2m, Male to Female, IP67
CameraCoaxial Cable	SG-JSZJSZ2000L	2m, Female to Female, IP67
CameraCoaxial Cable	SG-JSZPSZ3000L	3m, Male to Female, IP67
CameraCoaxial Cable	SG-JSZJSZ3000L	3m, Female to Female, IP67
CameraCoaxial Cable	SG-JSZPSZ5000L	5m, Male to Female, IP67
CameraCoaxial Cable	SG-JSZJSZ5000L	5m, Female to Female, IP67
CameraCoaxial Cable	SG-JSZJSZ7000L	7m, Female to Female, IP67
CameraCoaxial Cable	SG-JSZJSZ8000L	8m, Female to Female, IP67
CameraCoaxial Cable	SG-JSZPSZL100L	10m, Male to Female, IP67
CameraCoaxial Cable	SG-JSZJSZL100L	10m, Female to Female, IP67
CameraCoaxial Cable	SG-JSZJSZL120L	12m, Female to Female, IP67
CameraCoaxial Cable	SG-JSZJSZL160L	16m, Female to Female, IP67
CameraCoaxial Cable	SG-JSZJSZL200L	20m, Female to Female, IP67





REVISION HISTORY

Vesion	Description	Date
Rev1	First release	2025.7





Contact Us

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WE CHAT

