

ISM-OV8865

MIPI SENSOR MODULE

The iENSO ISM-OV8865 is the quality leader MIPI sensor module that adapt to iENSO's embedded ecosystem of SOMs, vision systems, and wireless connectivity modules.

The ISM-OV8865 uses OmniVision's OV8865 sensor, offering automatic black level calibration and two on chip PLLs, which result in superior high and low light images and make it perfect for mobile tablet application.

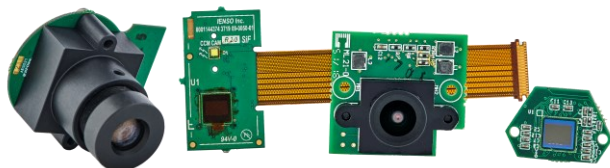
The OV8865 sensor features a type 1/3.2" color CMOS with 8M effective pixel to achieve 4K UHD resolution with backside illumination technology and it's suitable for various types of iENSO lenses.

APPLICATIONS

- Action cameras
- Robotic and drone cameras
- After-market automotive
- Tablets
- IoT & Embedded vision

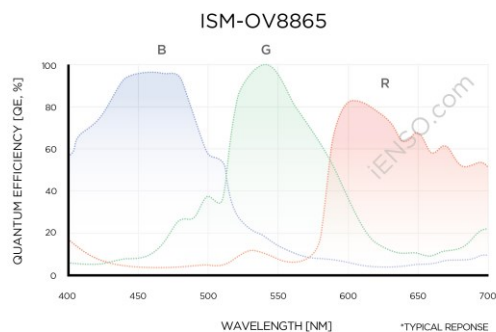
KEY SPECIFICATIONS

- Framerate: 30 fps 1080p at 10 bits over 4-lane MIPI CSI-2 interface.
- Pixel details: 1.4 μm , 3264 x 2448 array (4:3), automatic black level calibration, rolling shutter.
- Fits into industry standard 8.5 x 8.5 x 5 mm package.
- Operating temperature: ambient 10°C to 60°C with built-in sensor.

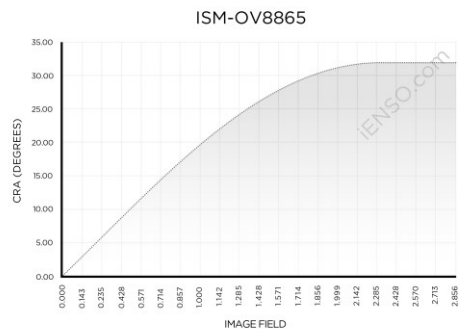


reference

SPECTRAL RESPONSE



CHIEF RAY ANGLE



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Maker	ON Semi	Silicon Optonics		ON Semi	Sony	OmniVision	Sony
Sensor	AR0144	JX-F22	JX-K02	AR0521	IMX326	OV8865	IMX317
Megapixels (MP)	1.0	2.1	4.1	5.0	6.8	8.0	8.5
Frame Rate (fps)	60	60	60	60	30	30	60
Optical Format (inch)	1/4	1/2.7	1/2.7	1/2.5	1/2.9	1/3.2	1/2.5
Pixel size (µm)	3.0	3.0	2.2	2.2	1.62	1.4	1.62
Benefits	<ul style="list-style-type: none"> HDR Low Light Near IR enhanced 	<ul style="list-style-type: none"> HDR Low light 	<ul style="list-style-type: none"> On-chip ISP HDR Low light 	<ul style="list-style-type: none"> HDR BSI Low light 	<ul style="list-style-type: none"> BSI HDR Low light Near IR enhanced 	<ul style="list-style-type: none"> BSI 	<ul style="list-style-type: none"> HDR BSI

THE RIGHT EMBEDDED VISION SYSTEM FOR YOUR APPLICATION

CONSISTENT QUALITY: From six-axis lens alignment to consistently accurate color quality, to AI and ubiquitous connectivity, we guarantee that every iENSO embedded vision system will perform to spec.

SECURE SUPPLY: With iENSO engineers on the floor in all of our manufacturing partner facilities, we guarantee the quality and quantity of supply you need to make your application a success.

COMPELLING ECONOMICS: With our years of experience in the design and development of industrial, machine and consumer vision technologies, we can provide a cost-effective, no compromise embedded vision solution for your application.

ABOUT iENSO

Established in 2003, iENSO provides imaging and wireless solutions that are helping global brands take their products to the next level in the age of embedded systems and AI platforms. iENSO accelerates the deployment of innovative imaging and wireless products in a wide range of verticals such as IoT, home automation, automotive,

drones, professional entertainment, robotics, remote surveillance and security. With offices in Canada and China, iENSO has perfected the engineering ecosystems that exist between initial design and high-volume manufacturing.



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