ISM-IMX334

MIPI SENSOR MODULE

The iENSO MIPI sensor module ISM-IMX334 is superbly adaptable to iENSO's embedded ecosystem of SOMs, vision systems, and wireless connectivity modules.

The ISM-IMX334 uses SONY's IMX334 sensor with STARVIS technology. STARVIS technology applies a back-illuminated pixel structure, which is more efficient in collecting light to reach high sensitivity and realize high quality in the visible-light and near-infrared light regions.

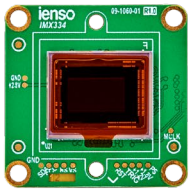
The SONY IMX334 sensor features a type 1/1.8" color CMOS with 8.29M effective pixel to achieve 3840 x 2160 resolution with digital overlap HDR technology and it's suitable for various iENSO lens types.

APPLICATIONS

- Specialty Surveillance
- Robotic and drone cameras
- Medical Cameras
- Wearable Cameras
- IoT and Embedded vision

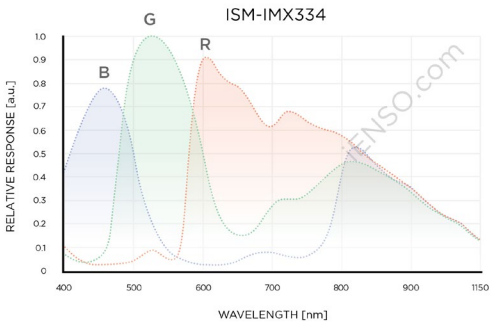
KEY SPECIFICATIONS

- Framerate: 60 fps at UHD, 12 bits over 4/8-lane MIPI CSI-2 interface for RAW10/RAW12 data output.
- Pixel details: 2.0x2.0 µm, 3840 x 2160 array (16:9 format), STARVIS BSI, ME/DOL-HDR, rolling shutter.
- Package/Environmental: Ceramic LGA with 128 pins, -10°C to 60°C sensor ambient guaranteed performance temperature.

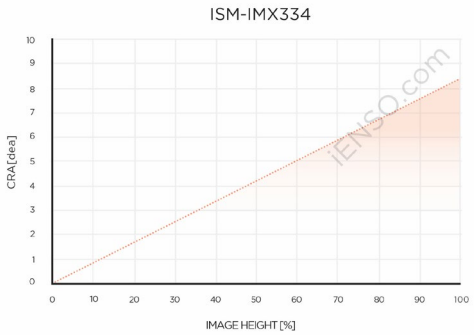


Width: 26mm
Height: 26mm

SPECTRAL RESPONSE



CHIEF RAY ANGLE



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Maker	ON Semi	Silicon Optronics		ON Semi	Sony	OmniVision	Sony
Sensor	AR0144	JX-F22	JX-K02	AR0521	IMX326	OV8865	IMX334
Megapixels (MP)	1.0	2.1	4.1	5.0	6.8	8.0	8.29
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	1/1.8
Pixel size (µm)	3.0	3.0	2.2	2.2	1.62	1.4	2.0
Benefits	• HDR • Low Light • Near IR enhanced	• HDR • Low light	• On-chip ISP • HDR • Low light	• HDR • BSI • Low light	• BSI • HDR • Low light • Near IR enhanced	• BSI	• BSI • Low light • HDR • Near IR enhanced

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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