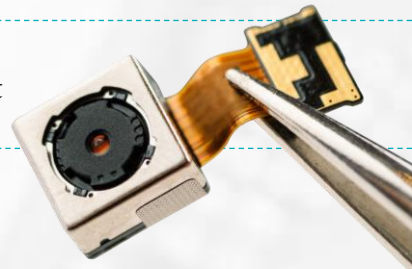
INV-IMX585-8MP

8MP High-Dynamic-Range Camera Module with Sony STARVIS 2 IMX585 Sensor, MIPI-CSI Interface

The INV-IMX585 is a 1/1.2-inch 8MP CMOS digital image sensor featuring Sony STARVIS 2 technology. It provides approximately 8.4 million effective pixels with 2.9 µm pixel size, delivering high sensitivity and detailed imaging for demanding vision applications.
The sensor provides excellent image quality in both bright and extremely low-light environments. Its enhanced near-infrared sensitivity and high dynamic range make it particularly effective for nighttime imaging, while its HDR capabilities help preserve detail in scenes with significant differences between light and dark areas.
The INV-IMX585 combines high-resolution imaging with a 79.7° diagonal field of view and a 10 cm to infinity focus range. Its MIPI interface and large-format sensor make it well suited for security cameras, AI vision, robotics, industrial inspection, and other intelligent imaging systems.

- High-resolution 8MP imaging for detailed 4K image capture and advanced vision applications.
- Sony STARVIS 2 technology for high sensitivity and improved low-light image quality.
- Exceptional HDR performance with up to 88 dB dynamic range in single-exposure operation.
- Enhanced near-infrared sensitivity for improved nighttime and low-light imaging.
- High-speed imaging supporting up to 90 fps at 10-bit and 60 fps at 12-bit.
- Wide 79.7° diagonal field of view with low optical distortion for accurate scene coverage.
- MIPI interface and large 1/1.2-inch sensor for integration into AI, security, robotics, and embedded vision systems.



Resolution	Sensor Vendor	Image Sensor	Interface	Focus	Optical Size	EFL	FOV (degrees)	Focus Range	Optical Distortion	Module Size (mm)	Application
8MP	Sony	IMX585	MIPI	FF	1/1.2”	-	79.7	10cm~∞	<1%	97.63x50x50mm	Robotics, AI Vision, Security