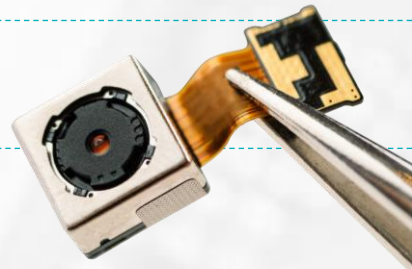
INV-IMX462-2MP

2MP Ultra-Low-Light Camera Module with Sony STARVIS™ IMX462 Sensor, MIPI-CSI Interface

The INV-IMX462 is a 1/2.8-inch 2MP CMOS digital image sensor with a 1920 (H) × 1080 (V) active pixel array. It features Sony STARVIS™ technology with excellent sensitivity and low-light performance, making it ideal for capturing clear images in challenging lighting conditions.
The sensor provides high-quality, low-noise images in both visible and near-infrared light. Its strong NIR sensitivity makes it well suited for nighttime imaging, surveillance, traffic monitoring, and other applications requiring reliable performance in low-light environments.
The INV-IMX462 delivers detailed Full HD images with excellent sensitivity and a wide dynamic range. Combined with autofocus, a wide 100° field of view, and a compact module design, it provides a flexible imaging solution for embedded vision and intelligent camera systems.

- Excellent low-light performance for clear imaging in dark and challenging environments.
- Precise image characterization of exposure, color, noise, shading, and optical parameters.
- Professional image tuning for BLC, CCM, LSC, and local/global tone mapping.
- Optimized Auto Exposure, Auto White Balance, and Auto Focus for consistent image quality.
- Dedicated image quality optimization.
- Superior NIR sensitivity and SNR
- Integrated support for real-time video, multi-camera systems, and noise reduction.



Resolution	Sensor Vendor	Image Sensor	Interface	Focus	Optical Size	EFL	FOV (degrees)	Focus Range	Optical Distortion	Module Size (mm)	Application
2MP	Sony	IMX462	MIPI	AF	1/2.8”	-	100	470cm	<-12%	26.5x26.5mm	Robotics, Surveillance