

INV-IMX477-12MP

12MP High-Resolution Camera Module with Sony STARVIS IMX477 Sensor, MIPI-CSI Interface

The INV-IMX477 is a 1/2.3-inch 12MP CMOS digital image sensor featuring Sony STARVIS technology. It provides an active pixel array of 4056 (H) × 3040 (V) with 1.55 μm pixels, delivering highly detailed images for demanding embedded vision and imaging applications.

The sensor delivers excellent image quality across a wide range of lighting conditions, with strong sensitivity and low-noise performance. It supports full-resolution imaging at up to 60 frames per second and includes HDR modes for improved detail in scenes with both bright and dark areas.

The INV-IMX477 provides flexible lens integration, allowing the field of view and focus characteristics to be adapted to the application. Its MIPI interface and high-resolution imaging make it well suited for AI vision, robotics, security, industrial inspection, and intelligent camera systems.



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High-resolution 12MP imaging for highly detailed photographs and advanced vision applications.



Sony STARVIS technology for strong sensitivity and improved low-light image quality.



High-speed imaging with up to 60 fps at full 12MP resolution.



HDR capability for improved detail across challenging high-contrast scenes.



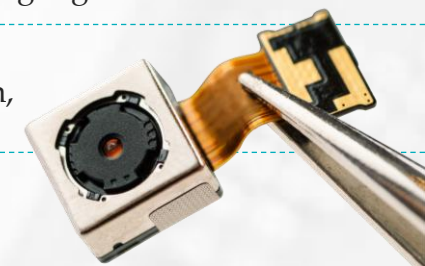
1.55 μm pixel architecture for a balance of resolution, sensitivity, and image quality.



Flexible lens configuration allows the camera to be adapted for different fields of view and working distances.



MIPI-CSI interface enables integration with embedded AI, robotics, security, and machine vision platforms.



Resolution	Sensor Vendor	Image Sensor	Interface	Focus	Optical Size	EFL	FOV (degrees)	Focus Range	Optical Distortion	Module Size (mm)	Application
12MP	Sony	IMX477	MIPI	Dependent on Lens	1/2.3"	Dependent on Lens	65	Dependent on Lens	Dependent on Lens	50x22x17mm	Robotics, AI Vision, Security