

INV-IMX766-50MP

50MP High-Resolution Autofocus Camera Module with Sony IMX766 Sensor, MIPI-CSI Interface

The INV-IMX766 is a 1/1.56-inch 50MP CMOS digital image sensor featuring Sony's back-illuminated and stacked CMOS technology. With approximately 50.3 million pixels, it delivers highly detailed images while maintaining strong sensitivity and low-noise performance.

The sensor combines high-resolution imaging with Quad Bayer technology and phase-detection autofocus. Its high sensitivity and advanced pixel architecture provide excellent image quality, while high-speed capture modes support responsive imaging and video applications.

The INV-IMX766 combines a 5.59 mm focal length with an 85.5° diagonal field of view and autofocus capability. Its MIPI interface and compact 13.5 mm × 13.5 mm × 8.5 mm module make it well suited for AI vision, robotics, smart devices, industrial imaging, and other high-resolution camera applications.



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Ultra-high-resolution 50MP imaging for highly detailed photographs and advanced vision applications.



Sony back-illuminated stacked technology for improved sensitivity and low-noise image performance.



Quad Bayer pixel architecture for enhanced sensitivity and image quality in challenging lighting conditions.



Phase-detection autofocus for fast and accurate focusing across different working distances.



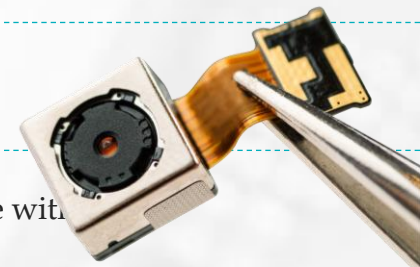
High-speed image capture supporting responsive imaging and video applications.



85.5° diagonal field of view for broad scene coverage with a balanced perspective.



MIPI interface and compact module design for integration into AI, robotics, smart devices, and embedded vision platforms.



Resolution	Sensor Vendor	Image Sensor	Interface	Focus	Optical Size	EFL	FOV (degrees)	Focus Range	Optical Distortion	Module Size (mm)	Application
50MP	Sony	IMX766	MIPI	AF	1/1.156"	5.59mm	85.5	10CM-∞	1.5%	13.5x13.5x8.5mm	Robotics, AI Vision, Security