

INV-SC450AI-4MP

4MP High-Sensitivity AI Camera Module with SmartSens SC450AI Sensor, MIPI-CSI Interface

The INV-SC450AI is a 1/1.8-inch 4MP CMOS digital image sensor featuring SmartSens SmartClarity™ technology. It delivers high sensitivity, low noise, and excellent image quality, making it well suited for demanding AI vision and 24/7 camera applications.

The sensor combines BSI-enabled PixGain technology with advanced HDR capabilities to provide strong performance across challenging lighting conditions. Its high sensitivity and low noise help produce clear, detailed images in both bright and extremely low-light environments.

The INV-SC450AI provides 4MP imaging with support for high-speed video up to 60 frames per second. Combined with its 135.2° diagonal field of view, fixed-focus design, and compact 22 mm × 22 mm module, it is an ideal solution for smart cameras, surveillance, IoT vision, and AI-powered imaging systems.



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Ultra-high sensitivity for clear imaging in extremely low-light environments.



High dynamic range for preserving image detail across challenging lighting conditions.



Low noise and high SNR for clean, detailed images with improved image recognition.



Full-color night vision for enhanced nighttime imaging without relying solely on infrared illumination.



High-quality 4MP imaging

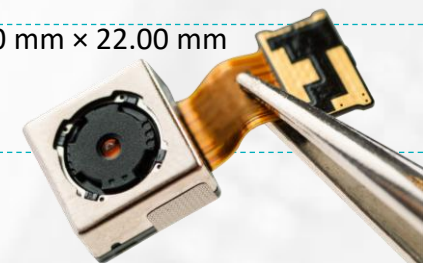


Wide 135.2° field of view for broad scene coverage



High-temperature performance for reliable imaging in demanding 24/7 camera environments.

22.00 mm × 22.00 mm



Resolution	Sensor Vendor	Image Sensor	Interface	Focus	Optical Size	EFL	FOV (degrees)	Focus Range	Optical Distortion	Module Size (mm)	Application
4MP	SmartSens	SC450AI	MIPI	FF	1/1.8"	4mm	135.2	0.1m-∞	< -15%	22x22mm	Security, AI