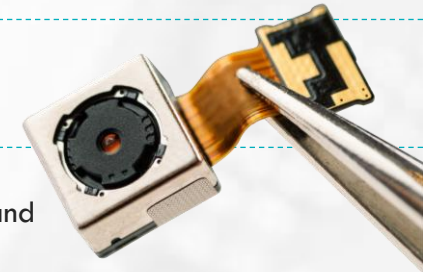
INV-OV8856FF-8MP

8MP Compact Camera Module with OmniVision OV8856 Sensor, MIPI-CSI Interface

The INV-OV8856 is a compact 1/4-inch 8MP CMOS digital image sensor featuring OmniVision's PureCel® pixel technology. It provides a 3264 (H) × 2448 (V) active pixel array and delivers high-resolution images in a small form factor, making it well suited for compact embedded camera applications. The sensor produces clear, detailed images with low noise and strong sensitivity. It supports full-resolution 8MP imaging at up to 30 frames per second and 1080p video at up to 60 frames per second, providing high-quality performance for both still images and real-time video applications. The INV-OV8856 combines advanced image quality controls with a compact 8.5 mm × 8.5 mm × 4.05 mm module design. Its HDR capability, lens shading correction, defect pixel correction, and MIPI interface make it a versatile solution for mobile devices, embedded vision, smart devices, and compact imaging systems.

- High-resolution 8MP imaging for detailed still images and video applications.
- OmniVision PureCel® technology for improved image quality and efficient pixel performance.
- High-speed video capture with 8MP at 30 fps and 1080p at 60 fps.
- HDR capability for improved image detail across bright and dark areas of a scene.
- Advanced image quality controls including defect pixel correction and lens shading correction.
- MIPI interface for integration with embedded processors and compact vision platforms.
- Ultra-compact 8.5x8.5mm design for space-constrained camera applications.



Resolution	Sensor Vendor	Image Sensor	Interface	Focus	Optical Size	EFL	FOV (degrees)	Focus Range	Optical Distortion	Module Size (mm)	Application
8MP	OmniVision	OV8856FF	MIPI	FF	1/4”	2.23	75	10CM–∞	<1%	8.5x8.5mm	Smartphones, Embedded Vision