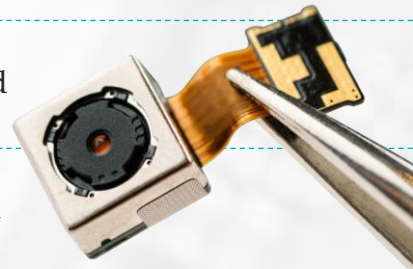
INV-AR1335AF-13MP

13MP RGB Rolling Shutter Camera Module

The INV-AR1335-13MP camera module is based on the OnSemi AR1335 CMOS 13-megapixel image sensor, featuring Auto Focus (AF) capabilities and optimized for high-detail imaging.
Built on OnSemi's A-PixHS™ technology, the AR1335 combines a stacked-die structure with high-speed circuitry to deliver exceptional image quality and sensitivity.
It is designed to excel in low-light conditions while maintaining high-speed throughput. The sensor operates with an Electronic Rolling Shutter and supports high-frame-rate performance, delivering up to 30 fps at full 13MP resolution and 60 fps at 4K Ultra HD. With its superior resolution and advanced pixel architecture, the AR1335 is ideally suited for high-end consumer devices, professional tablets, and high-resolution industrial IoT applications.

- 13MP capture at 30 fps for crisp, detailed imaging in professional and industrial use.
- Advanced pixel technology for superior light collection and low-light sensitivity.
- Precise characterization of shading, distortion, and intrinsic/extrinsic parameters.
- Optimized BLC, LSC, and CCM for high-fidelity color accuracy and machine vision.
- High-speed Auto Exposure, Auto White Balance, and rapid Auto Focus (AF) response.
- Efficient architecture designed for mobile, tablet, and battery-powered applications.
- IQ profiles specifically tuned for high-resolution object detection and document scanning.



Resolution	Sensor Vendor	Image Sensor	Interface	Focus	Optical Size	EFL	FOV (degrees)	Focus Range	Optical Distortion	Module Size (mm)	Application
13MP	OnSemi	AR1335	MIPI	AF	1/3.2"	3.57	V=51.6, H=66.2, D=78.4	8cm~∞	<1.5%	18.5x9.5x5.27mm	Smart Phones, Security