

INV-AR0830FF-8MP

8MP (4K) RGB Rolling Shutter Camera Module

This advanced sensor captures images in either linear or enhanced Dynamic Range (eDR) modes, with a rolling-shutter readout.

It is supported by a 1.4 μm BSI pixel from OnSemi and delivers excellent performance in lowlight & NIR wavelengths. The features of the AR0830 provides a powerful data capturing device at the edge that can be programmed through several options to deliver optimal bandwidth at very low power.

The AR0830 module is integrated with the NXP i.MX 95 and NXP i.MX 8M Plus platforms, enabling high-speed MIPI CSI-2 connectivity and optimized image processing for advanced edge vision applications. InnoWave's camera and ISP tuning further optimizes exposure, color, HDR, and low-light performance for the i.MX 95, providing a reliable imaging solution for AI, industrial, automotive, and IoT systems.



Specialized IQ tuning for security analytics, ADAS, and high-end industrial automation.



Advanced pixel design to eliminate flickering from artificial light sources and signage.



Captures up to 150 dB with on-sensor eHDR and ALTM processing to handle extreme contrast.



High-performance Auto Exposure, White Balance, and custom CCM/LSC optimization.



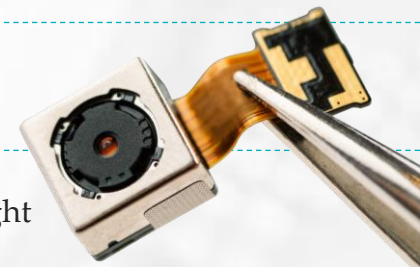
Precise characterization of shading, distortion, and intrinsic/extrinsic parameters.



Stacked BSI architecture for industry-leading low-light performance and NIR sensitivity.



Optimized for performance-per-watt in space-constrained and battery-powered systems.



Resolution	Sensor Vendor	Image Sensor	Interface	Focus	Optical Size	EFL	FOV (degrees)	Focus Range	Optical Distortion	Module Size (mm)	Application
8MP	OnSemi	AR0830	MIPI	FF	1/2.9"	3.65	V=49, H=89, D=108	120cm~∞	<-20%	10x10x16.6mm	Machine Vision, Webcams, 3D/Stero