

INV-AR0144FF-1MP

1MP RGB/Mono Global Shutter Camera Module, MIPI-CSI Interface for SMARC QCS6490 Vision AI Dev Kit

The AR0144 is a 1/4-inch 1.0 Mp CMOS digital image sensor with an active-pixel array of 1280H x 800V. It incorporates a new innovative global shutter pixel design optimized for accurate and fast capture of moving scenes.

The sensor produces clear, low noise images in both low-light and bright scenes. It includes sophisticated camera functions such as auto exposure control, windowing, row skip mode, column-skip mode, pixel-binning and both video and single frame modes.

It is programmable through a simple two-wire serial interface. The AR0144 produces extraordinarily clear, sharp digital pictures, and its ability to capture both continuous video and single frames makes it the perfect choice for a wide range of applications, including scanning and industrial inspection.



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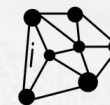
Eliminates motion blur and rolling shutter distortion for high-speed capture



Characterization of shading, distortion, and intrinsic/extrinsic parameters



Optimized BLC, LSC, CCM, and advanced denoising for machine vision.



High-speed Auto Exposure, Auto White Balance, and Auto Focus.



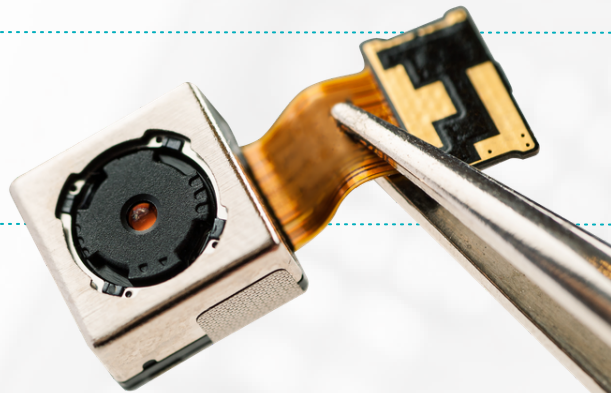
Specialized image quality profiles



Enhanced sensitivity and noise reduction.



Support for EIS, array synchronization, and tailored noise removal.



Resolution	Sensor Vendor	Image Sensor	Interface	Focus	Optical Size	EFL	FOV (degrees)	Focus Range	Optical Distortion	Module Size (mm)	Application
1MP	OnSemi	AR0144 mono	DVP	FF	1/4"	2.3	86	60cm~∞	<-20%	8x8x5.61mm	AR/VR, 3D Scanning