

INV-OX03F10-3MP

3MP RGB/Mono Rolling Shutter Camera Module, MIPI-CSI Interface for SMARC QCS6490 Vision AI Dev Kit

OMNIVISION's OX03F10 image sensor expands our next-generation ASIL C viewing camera family with higher 3MP resolution and cybersecurity features that are required as vehicle designers make the transition from Level 2 and 3 advanced driver assistance systems (ADAS) to higher levels of autonomy.

The OX03F10 also maintains the family's unique combination of a large 3.0-micron pixel size with a high dynamic range (HDR) of 140 dB and the best LED flicker mitigation (LFM) performance for minimized motion artifacts. Additionally, the sensor is offered in a 1/2.44" optical format and features a 4-lane MIPI CSI-2 interface.



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High-speed capture that eliminates motion artifacts, critical for precision sensing and high-speed computer vision.



Full support for Image Signal Processor tuning, including Black Level Correction (BLC) and Lens Shading Correction (LSC).



Optimized for Auto Exposure, Auto White Balance, and rapid Auto Focus response.



Features OmniPixel®3-GS technology for high quantum efficiency and excellent performance in low-illumination environments.



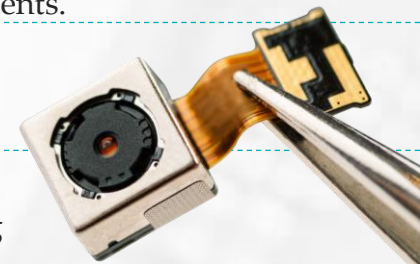
Specialized pixel architecture.



IQ tuning balanced for high-fidelity human viewing and machine learning data accuracy.



Includes comprehensive camera characterization for intrinsic/extrinsic calibration and distortion mapping.



Resolution	Sensor Vendor	Image Sensor	Interface	Focus	Optical Size	EFL	FOV (degrees)	Focus Range	Optical Distortion	Module Size (mm)	Application
3MP	OmniVision	OX03F10	MIPI	FF	1/2.44"	5.83	60	40cm~30cm	-	50x21mm	Automotive