

INV-VD56G3FF-1.5MP

1.5MP RGB/Mono Global Shutter Camera Module, MIPI-CSI Interface for SMARC QCS6490 Vision AI Dev Kit

The VD56G3 and VB56G3 are 1.5-megapixel monochrome CMOS image sensors that deliver exceptional imaging performance in a compact form factor.

Built on STMicroelectronics' proprietary technologies, including BSI and full CDTI, they achieve superior QE (quantum efficiency), MTF (modulation transfer function), and angular response for sharp, crystal-clear image capture, even in challenging conditions.

With outstanding performance in both visible and near infrared light (850 nm, 940 nm), these sensors are ideal for precision-driven and versatile applications.



INNOCAM
BEYOND EXPECTATIONS
BY INNOWAVE

INNOISP



INNOWAVE
INSPIRE THE NEXT



High-speed capture using advanced 3D stacked technology to eliminate motion artifacts.



High Quantum Efficiency at 850nm and 940nm for superior performance in low-light and IR-illuminated scenes.



Full characterization of intrinsic/extrinsic parameters, shading, and optical distortion.



Optimized Auto Exposure, Auto White Balance, and custom pipelines for BLC and Lens Shading Correction.



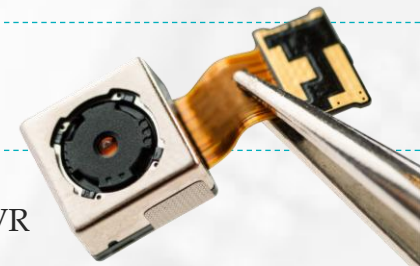
IQ tuning tailored for SLAM, gesture recognition, and 3D eye-tracking applications.



Small footprint designed for space-constrained AR/VR and wearable devices.



Support for multi-camera synchronization, background subtraction, and high-speed data output.



Resolution	Sensor Vendor	Image Sensor	Interface	Focus	Optical Size	EFL	FOV (degrees)	Focus Range	Optical Distortion	Module Size (mm)	Application
1.5MP	ST	VD56G3FF mono	MIPI	FF	1/4"	3.08	74	45cm~∞	<-12%	6.5x6.5x4mm	IoT