INV-VD56G3FF-1.5MP

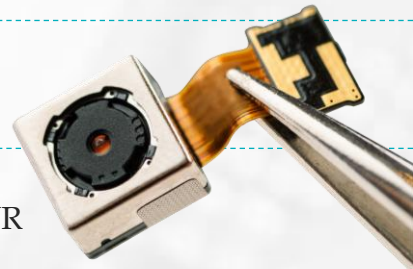
1.5MP Mono Global Shutter Camera Module

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.

- 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