INV-IMX686AF-64MP

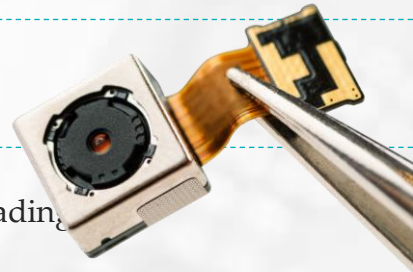
64MP RGB Rolling Shutter Camera Module

The INV-IMX686AF-64MP is an auto focus camera module with a diagonal 9.251 mm (Type 1/1.73) Sony IMX686 64 Mega-pixel CMOS active pixel type stacked image sensor with a square pixel array.

It adopts Sony's back-illuminated and stacked CMOS image sensor to achieve high speed image capturing by column parallel A/D converter circuits and high sensitivity and low noise image (comparing with conventional CMOS image sensor) through the backside illuminated imaging pixel structure.

R, G, and B pigment primary color mosaic filter is employed. It operates with four power supply voltages: analog 2.9 V and 1.8V, digital 1.1 V and 1.8 V for input/output interface and achieves low power consumption. The camera module has an auto focus lens, holder, VCM and FPC.

- 64MP stacked CMOS sensor delivering 9248×6936 pixels for extreme detail.
- Supports Phase Detection Auto Focus for rapid and precise focusing in diverse conditions.
- Enhances light collection and image quality across both bright and low-light scenes.
- Captures 64MP at 30 fps and supports up to 240 fps for slow-motion effects.
- Integrated QBC-HDR for managing high-contrast transitions and low-illumination performance.
- Built-in dynamic defect pixel correction and Lens Shading Correction for high-fidelity output.
- Tailored for AI-driven devices, providing high-detail data for facial recognition and edge analytics.



Resolution	Sensor Vendor	Image Sensor	Interface	Focus	Optical Size	EFL	FOV (degrees)	Focus Range	Optical Distortion	Module Size (mm)	Application
64MP	Sony	IMX686	MIPI	FF	1/1.17”	-	79.8	10cm~∞	<-1.5%	11.8x11.8x6.95mm	Automotive, Medical