

INV-IMX415-8MP

8.3MP (4K) RGB/Mono Rolling Shutter Camera Module,
MIPI-CSI Interface for SMARC QCS6490 Vision AI Dev
Kit

The INV-IMX415-8.3MP camera module is based on the Sony IMX415 back-illuminated CMOS image sensor, typically paired with high-resolution M12 (S-Mount) optics.

As part of the STARVIS™ series, the IMX415 is designed to provide high-resolution 4K imagery with significantly enhanced sensitivity compared to conventional sensors of the same size.

It utilizes Sony's Back-Illuminated (BSI) technology to capture clear, detailed images even in low-light conditions, making it a powerful tool for surveillance and AI-driven analytics. The sensor operates with an Electronic Rolling Shutter and supports high-speed performance, delivering up to 60 fps at full 4K resolution via a 4-lane MIPI CSI-2 interface. Its compact footprint and extreme detail make it ideal for smart cities, high-end security, and edge computing vision systems.



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Back-illuminated pixel architecture optimized for ultra-high sensitivity in security and industrial use.



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



Professional optimization for BLC, LSC, CCM, and custom noise reduction.



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



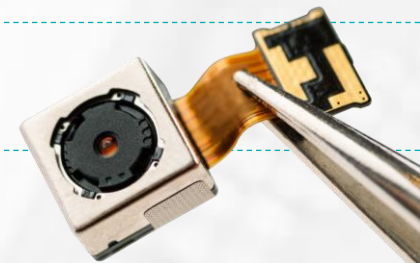
Delivers high-detail 4K () video at up to 90 fps.



Exceptional signal-to-noise ratio for clear imaging in low-illumination environments.



Specialized IQ tuning for facial recognition, license plate reading, and edge analytics.



Resolution	Sensor Vendor	Image Sensor	Interface	Focus	Optical Size	EFL	FOV (degrees)	Focus Range	Optical Distortion	Module Size (mm)	Application
8MP	Sony	IMX415	MIPI	FF	1/2.8"	2.6	129	40cm~∞	<-40%	26.5x26.5mm	Medical, Robotics