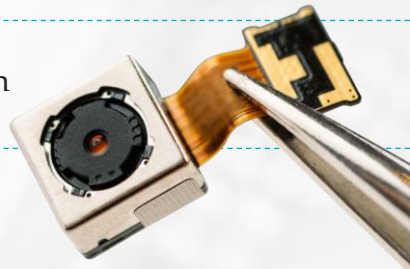
INV-IMX219FF-8MP

8MP RGB Rolling Shutter Camera Module

The INV-IMX219-8MP is a fixed focus camera module with a diagonal 4.60 mm (Type 1/4.0) CMOS active pixel type image sensor with a square pixel array and 8.08M effective pixels. This chip operates with three power supplies, analogue 2.8 V, digital 1.2 V, and IF 1.8 V, and has low power consumption.

High sensitivity, low dark current, and no smear are achieved through the adoption of R, G, and B primary color pigment mosaic filters. This chip features an electronic shutter with variable charge-storage time. The camera module has a fixed focus lens, holder, and FPC.

- High-speed capture with backside illumination for improved light collection.
- Full characterization of shading, distortion, and intrinsic/extrinsic parameters.
- Optimized BLC, LSC, and CCM for professional-grade color accuracy and machine vision.
- High-precision Auto Exposure, Auto White Balance, and rapid focus response.
- Supports 8MP @ 30 fps and 1080p @ 60 fps for smooth high-definition capture.
- Optimized architecture for mobile, IoT, and battery-powered applications.
- Specialized IQ tuning for object recognition, robotics, 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	IMX219	MIPI	FF	1/4”	2.47	84	30cm~∞	<1.5%	8.5x8.5x4.2mm	Drones, Security, Robotics