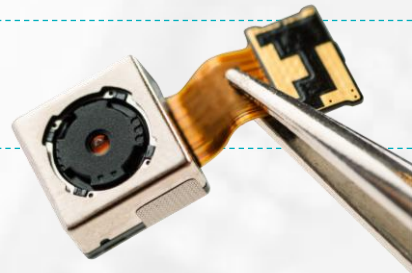
INV-OV5675-5MP

5MP RGB Rolling Shutter Camera Module

OMNIVISION's high-performance OV5675 is a 5-megapixel PureCel® sensor designed to bring high-quality imaging capabilities to front- and rear-facing cameras in smartphones and tablets. The industry's smallest 5-megapixel currently available, the cost-effective OV5675 offers dramatically improved image and video quality in a compact and power-efficient package.

The 1/5-inch sensor can capture full resolution 5-megapixel images in a native 4:3 aspect ratio at 30 frames per second (fps), or 720p high definition (HD) and 1080p video at 60 fps. Additionally, the OV5675 supports ultra-low power mode, which enables QVGA video recording at 30 fps while requiring less than 25 mW.

- High-performance 5MP BSI sensor for high sensitivity and low power consumption.
- 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.
- Thin module design optimized for space-constrained mobile and wearable devices.
- Supports 5MP @ 30 fps and 720p @ 60 fps for smooth high-definition capture.
- IQ tuning specifically balanced for both human viewing and machine vision analytics.



Resolution	Sensor Vendor	Image Sensor	Interface	Focus	Optical Size	EFL	FOV (degrees)	Focus Range	Optical Distortion	Module Size (mm)	Application
5MP	OmniVision	OV5675	MIPI	FF	1/4"	2.34	88	30cm~∞	<-1.5%	6.5x6.5x3.72mm	Smartphones and Tablets