INV-OV64B40-64MP

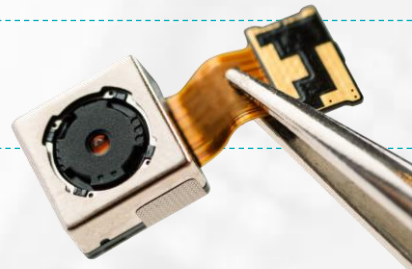
64MP High-Resolution Autofocus Camera Module with OmniVision OV64B40 Sensor, MIPI-CSI Interface

The INV-OV64B40 is a 1/2-inch 64MP CMOS digital image sensor featuring OmniVision PureCel®Plus stacked-die technology. With a 0.7 µm pixel size and 9248 × 6944 active pixel array, it delivers highly detailed images while maintaining strong imaging performance in a compact form factor.

The sensor combines high-resolution imaging with 4-cell binning for improved low-light sensitivity. It supports HDR imaging, 8K video at 30 frames per second, and 4K video at up to 60 frames per second, providing flexible performance for both still-image and high-speed video applications.

The INV-OV64B40 combines a 4.74 mm focal length with a 79.4° diagonal field of view and autofocus beginning at approximately 28.1 cm. Its MIPI interface and compact design make it well suited for AI vision, robotics, smart cameras, security, industrial imaging, and other high-resolution applications.

- Ultra-high-resolution 64MP imaging for highly detailed photographs and advanced vision applications.
- OmniVision PureCel®Plus technology for high-quality imaging and improved pixel performance.
- 4-cell binning technology for enhanced sensitivity and improved low-light image quality.
- HDR imaging capability for improved detail across bright and dark areas of a scene.
- High-speed 8K and 4K video supporting 8K at 30 fps and 4K at 60 fps.
- ML-PDAF autofocus for fast and accurate focusing across different lighting conditions.
- 79.4° diagonal field of view with low optical distortion for broad and natural scene coverage.



Resolution	Sensor Vendor	Image Sensor	Interface	Focus	Optical Size	EFL	FOV (degrees)	Focus Range	Optical Distortion	Module Size (mm)	Application
64MP	OmniVision	OV64B40	MIPI	AF	1/2"	4.74mm	79.4	28.1CM	<1.5%	-	Robotics, AI Vision, Industrial