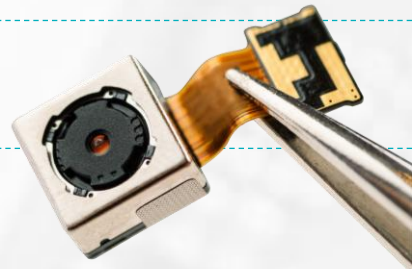
INV-IMX376AF-20MP

20MP High-Resolution Autofocus Camera Module with Sony IMX376 Sensor, MIPI-CSI Interface

The INV-IMX376AF is a 1/2.78-inch 20MP CMOS digital image sensor featuring Sony Exmor RS™ technology. With a high-resolution 5216 × 4032 pixel array and 1.0 µm pixels, it delivers highly detailed images while maintaining strong sensitivity and low-noise performance.
The sensor provides clear, detailed images across a wide range of lighting conditions. Its 4-pixel binning capability improves light sensitivity in low-light environments, while HDR support helps preserve image detail in scenes containing both bright and dark areas. It also supports 4K video capture at up to 30 frames per second.
The INV-IMX376AF combines a 3.95 mm focal length with an 80° diagonal field of view and autofocus from approximately 10 cm to infinity. Its MIPI interface and compact 8.8 mm × 8.8 mm × 6.62 mm module make it well suited for mobile devices, smart cameras, robotics, industrial inspection, and embedded vision applications.

- High-resolution 12MP imaging for detailed photographs and advanced vision applications.
- Sony IMX708 image sensor for high-quality imaging in compact camera systems.
- Autofocus capability for sharp imaging across a wide range of working distances.
- Ultra-wide 120° field of view for broad scene coverage and environmental awareness.
- High-quality low-light imaging for reliable image capture in challenging lighting conditions.
- Low optical distortion for improved image geometry across the wide-angle field of view.
- MIPI interface and compact design for integration into robotics, AI, security, and embedded vision platforms.



Resolution	Sensor Vendor	Image Sensor	Interface	Focus	Optical Size	EFL	FOV (degrees)	Focus Range	Optical Distortion	Module Size (mm)	Application
20MP	Sony	IMX376	MIPI	AF	1/2.78"	3.95mm	80	10CM–∞	< -1%	8.8x8.8x6.62mm	Mobile Devices, Smart Cameras, Robotics