



Edge Camera Solutions Overview

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Edge Camera Ecosystem



Intel partners closely with a growing number of camera vendors and ODMs to scale the portfolio of cameras and provide ready-to-use solutions and image quality tuning services.

- Full Market Coverage
- Full Geo Coverage

14 Partners
60+ Off the Shelf Cameras

9 ODMs
20+ OTS Boards

Camera Vendors



Board/System ODMs



Camera Software Integration and Solutions



Contact your Intel sales representative to kick off your solution design and other camera enabling

Intel Image Processing Unit Overview

Edge applications are driving the need for higher quality and reliable camera processing and video ingestion capabilities



Frictionless Retail



Video Collaboration



Education



Robotics / AMRs



Manufacturing



Humanoids

- Intel® Image Processing Unit (IPU) is the subsystem within Intel SoCs that processes image sensor data delivered via high-speed MIPI-CSI
- Intel® Image Processing Unit offers:
 - Both processing for RAW cameras and passthrough for YUV (Smart) and depth cameras
 - Concurrent multi stream support via direct MIPI, SerDes, or HDMI-DP bridge
 - Best-in-class image quality with advanced features including high-dynamic range, spatial/temporal noise reduction, ultra low light, wide field of view, etc.
 - Comprehensive camera portfolio via established ecosystem

Direct MIPI (Corp Collab, Education, Robotics, Retail)



SERDES → MIPI (Auto, Robotics, Retail)



HDMI → MIPI (Corp Collab, Education, Auto)



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