

Edge Cameras

Compact, integrated imaging system to develop and run deep learning and AI vision applications

The new edge camera family from The Imaging Source features an integrated imaging system, which combines an image sensor with the computing power of NVIDIA® Jetson Xavier™ NX in a compact package.

The Edge Cameras feature Sony IMX296 (global shutter, 1.6 MP) or Sony IMX568 (global shutter, 5.0 MP). A Wi-Fi/Bluetooth module is currently in prototype and may be available later this year.

The cameras are delivered with NVIDIA JetPack software, which offers extensive deep learning functionality as well as a host of additional tools and libraries. For general image processing tasks and deep learning applications, the HALCON software library can also be installed and used.



Edge Cameras with 1.6 MP or 5 MP sensors and NVIDIA Jetson Xavier NX SoM deliver a powerful imaging system for AI vision applications.



Features

- Platform: NVIDIA Jetson Xavier NX
- Resolutions: 1.6 MP and 5.0 MP (Sony Pregius global shutter)
- Monochrome or color
- Delivered with NVIDIA JetPack SDK



Electrical and Mechanical Interfaces: Edge Camera

Processor	NVIDIA Jetson Xavier NX SoM
Available Sensors (Color and Mono)	IMX296 and IMX568
External Interface	1x USB 3.0
External Interface	1 GigE interface, RJ 45
External Interface	1x HDMI
External Interface	1x SD card
External Interface	12 pin Hirose connector, (power, CAN, UART/I2C, trigger, strobe/GPOUT)
Internal Interface	Fan (Molex PicoBlade)
Lens Mount	C mount
Fan Connector	Molex PicoBlade
Status Indicator	1x RGB LED
Supply Voltage	PoE+ or 12 pin Hirose connector 12 – 24 V / 30 W
Dimensions	115 mm x 58 mm
Weight	850 g / 30 oz without lens

