NEON-2000-JT2-X Series Starter Kit

NVIDIA® Jetson™ TX2-based IP67-certified AI smart camera kit

Features

- IP67-rated chassis and connectors, integration of NVIDIA Jetson TX2, image sensor and vision software suites, ready to deploy
- All-in-one design minimizes cabling, footprint, and maintenance
- FPGA-based DI/O for accurate, real-time triggering
- Validated and comprehensive accessories, saves effort on surveying and debugging
- Pre-installed software and sample code, easy to get started



Introduction

The NEON-2000-JT2-X is designed for harsh environments that require AI vision capabilities.

The NEON-2000-JT2-X starter kit provides all the necessary accessories to get started, saving effort on surveying and validating IP67 peripherals.

In addition to the camera, the starter kit includes M12 IP67 cables, a USB Type-C hub/adapter, lens, lens protector, and I/O extension board for connecting external devices, making the NEON-2000-JT2-X suitable for quick PoC.

Software Support

- Ubuntu 18.04 L4T (Linux for Tegra)
- Jetpack
- Basler pylon

Note: Supported software versions will be updated as released by NVIDIA.

Ordering information

- **NEON-202B-JT2-X Starter Kit**
  NEON-202B-JT2-X camera, USB Type-C hub/adapter, USB Type-C cable, ethernet cable and flash cable, power cords, lens, I/O extension board and I/O cable
- **NEON-203B-JT2-X Starter Kit**
  NEON-203B-JT2-X camera, USB Type-C hub/adapter, USB Type-C cable, ethernet cable and flash cable, power cords, lens, I/O extension board and I/O cable

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Specifications

Model Name	NEON-202B-JT2-X Starter Kit	NEON-203B-JT2-X Starter Kit
Computing platform	NVIDIA® Jetson™ TX2	
Camera model	NEON-202B-JT2-X	NEON-203B-JT2-X
Resolution	1.9M	2M
Frame rate (fps)	60	30
Color/Mono	Color	Color
USB Type-C hub/adapter	110V–240V AC in/DC 15V out from USB Type-C; 1x USB Type-C, 2x USB Type-A, 1x HDMI, 1x SD slot	
M12 Ethernet cable	3m M12 Ethernet cable for network connections	
M12 USB Type-C cable	2m USB Type C cable for video, power and USB keyboard and mouse	
M12 DI/O cable	3m DI/O cable (for connecting DIN-37D-01)	
M12 system flash cable	For flashing the Jetson TX2 system only	
Power cord	1x 1.5m category A power cord and 1x 1.5m category E power cord	
Lens	C-mount lens, focal length 8mm, aperture f1.4	
Lens cover	Length: 58mm (for lens protection)	
DI/O extension board	ADLINK DIN-37D-01 (terminal board with one 37-pin D-sub connector and DIN-rail mounting)	

Note: DC power can be supplied from either the M12 DI/O connector (DC 24V) or the USB Type-C port.



Contents:
(1) NEON-2000-JT2-X
(2) USB Type-C hub/adapter
(3) M12 USB Type-C cable
(4) Power cord
(5) Lens
(6) M12 DI/O cable
(7) DIN-37D-01 I/O extension board
(8) M12 Ethernet cable
(9) M12 system flash cable
(10) Lens protector

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