NEON-2000-JT2 Series Kit

NVIDIA® Jetson™ TX2-based AI smart camera kit

Features

- Integration of NVIDIA Jetson TX2, image sensor and vision software suites, ready to deploy
- All-in-one design minimizes cabling, footprint and maintenance
- FPGA base DI/O for accurate real-time triggering
- Validated and comprehensive accessories, saves effort on surveying and debug
- Pre-installed software and sample code, easy to get started
- Two kit configurations to satisfy different applications





Introduction

NEON-2000-JT2 series kits are available in two configurations with the required accessories for users to either test in the lab or quickly deploy in the field.

The Lite kit contains the NEON-2000-JT2 camera, USB Type-C hub/adapter and USB Type-C cable, and is suitable for applications without the need for external I/O or device control.

In addition to the components in the Lite kit, the Starter kit also provides lens, I/O extension board and I/O cable, and is suitable for proof of concept applications.

Software Support

- Ubuntu 18.04 L4T (Linux for Tegra)
- Jetpack 4.3
- Basler Pylon 5.2.0.13457

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

Ordering information

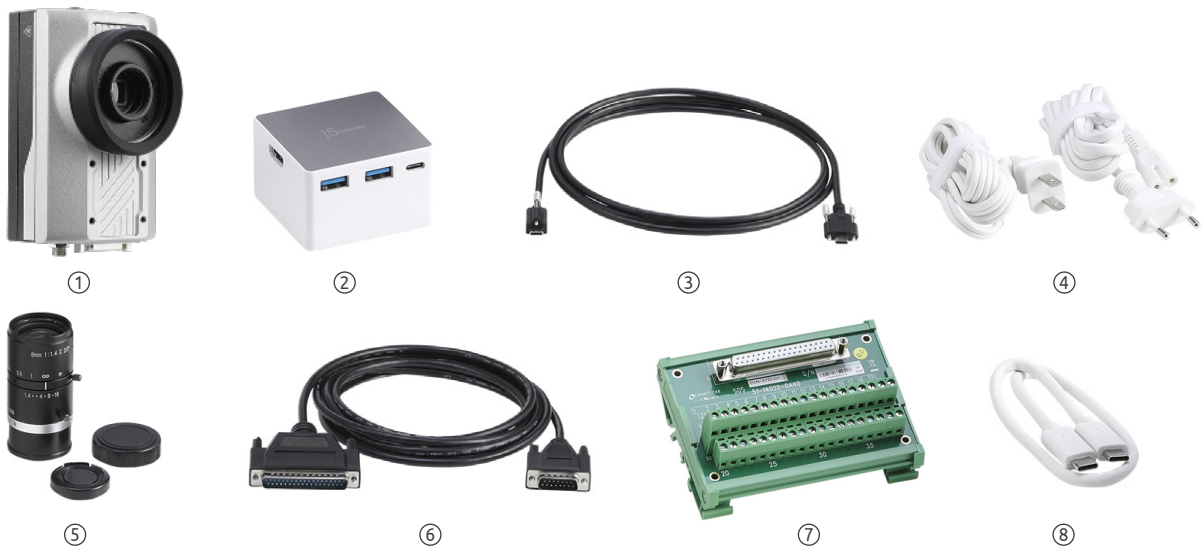
- **NEON-201B-JT2 Lite Kit**
  NEON-201B-JT2 camera, USB Type-C hub/adapter, USB Type-C cable and power cords
- **NEON-202B-JT2 Lite Kit**
  NEON-202B-JT2 camera, USB Type-C hub/adapter, USB Type-C cable and power cords
- **NEON-203B-JT2 Lite Kit**
  NEON-203B-JT2 camera, USB Type-C hub/adapter, USB Type-C cable and power cords
- **NEON-204B-JT2 Lite Kit**
  NEON-204B-JT2 camera, USB Type-C hub/adapter, USB Type-C cable and power cords
- **NEON-201B-JT2 Starter Kit**
  NEON-201B-JT2 camera, USB Type-C hub/adapter, USB Type-C cable, power cords, lens, I/O extension board and I/O cable
- **NEON-202B-JT2 Starter Kit**
  NEON-202B-JT2 camera, USB Type-C hub/adapter, USB Type-C cable, power cords, lens, I/O extension board and I/O cable
- **NEON-203B-JT2 Starter Kit**
  NEON-203B-JT2 camera, USB Type-C hub/adapter, USB Type-C cable, power cords, lens, I/O extension board and I/O cable
- **NEON-204B-JT2 Starter Kit**
  NEON-204B-JT2 camera, USB Type-C hub/adapter, USB Type-C cable, power cords, lens, I/O extension board and I/O cable

Specifications

Model Name	NEON-201B-JT2 Lite Kit	NEON-202B-JT2 Lite Kit	NEON-203B-JT2 Lite Kit	NEON-204B-JT2 Lite Kit
Computing platform	NVIDIA® Jetson™ TX2			
Camera model	NEON-201B-JT2	NEON-202B-JT2	NEON-203B-JT2	NEON-204B-JT2
Resolution	1.2M	1.9M	2M	5M
Frame Rate (fps)	54	60	30	14
Color/Mono	Color	Color	Color	Color
USB Type-C hub/adapter	110V-240V AC in/DC 15V out from USB Type-C; 1x USB Type-C, 2x USB, 1x HDMI, 1x SD slot			
Power Cord	1x 1.5m category A power cord and 1x 1.5m category E power cord			
USB Type-C cable	30cm USB Type-C cable			

Model Name	NEON-201B-JT2 Starter Kit	NEON-202B-JT2 Starter Kit	NEON-203B-JT2 Starter Kit	NEON-204B-JT2 Starter Kit
Computing platform	NVIDIA® Jetson™ TX2			
Camera model	NEON-201B-JT2	NEON-202B-JT2	NEON-203B-JT2	NEON-204B-JT2
Resolution	1.2M	1.9M	2M	5M
Frame Rate (fps)	54	60	30	14
Color/Mono	Color	Color	Color	Color
USB Type-C hub/adapter	110V~240V AC in/DC 15V out from USB Type-C; 1x USB Type-C, 2x USB, 1x HDMI, 1x SD slot			
Power Cord	1x 1.5m category A power cord and 1x 1.5m category E power cord			
USB Type-C cable	1.8m USB Type-C cable with screw lock			
Lens	C-mount lens, focal length 8mm, aperture f1.4			
DI/O Extension Board	ADLINK DIN37D-01 (terminal board with one 37-pin D-sub connector and DIN-rail mounting)			
DI/O Cable	2m DB-15 to DB-37 I/O extension cable			

Note: The DC power source can be either from the DC jack or the USB Type-C port.



Contents:
(1) NEON-2000-JT2
(2) USB Type-C hub/adapter
(3) 1.8m USB Type-C cable with screw lock
(4) Power cords
(5) C-mount lens
(6) DI/O cable
(7) ADLINK DIN37D-01
(8) 30cm USB Type-C cable

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