NEON-2000-ONO Series Starter Kit

NVIDIA® Jetson Orin Nano AI smart camera starter kit

Features

- Integration of NVIDIA Jetson Orin Nano 4GB, 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 products and debugging
- Pre-installed software and sample code, easy to get started



Introduction

NEON-2000-ONO series starter kits are available with the accessories required for testing in the lab and quick deployment in the field.

The starter kit contains the NEON-2000-ONO camera, lens, USB Type-C hub/adapter, 1.8m USB Type-C cable, I/O extension board and I/O cable, saving effort on surveying products and debugging, and letting the user focus on the application.

Software Support

- Ubuntu
- Jetpack

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

Ordering information

- **NEON-201A-ONO Starter Kit (90-20079-000E)**
  NEON-201A-ONO camera, USB Type-C hub/adapter, USB Type-C cable, power cords, lens, I/O extension board and I/O cable
- **NEON-202A-ONO Starter Kit (90-20079-010E)**
  NEON-202A-ONO camera, USB Type-C hub/adapter, USB Type-C cable, power cords, lens, I/O extension board and I/O cable
- **NEON-202B-ONO Starter Kit (90-20079-100E)**
  NEON-202B-ONO camera, USB Type-C hub/adapter, USB Type-C cable, power cords, lens, I/O extension board and I/O cable
- **NEON-203B-ONO Starter Kit (90-20079-110E)**
  NEON-203B\-ONO camera, USB Type-C hub/adapter, USB Type-C cable, power cords, lens, I/O extension board and I/O cable

Specifications

Model	NEON-202B-ONO Starter Kit	NEON-203B-ONO Starter Kit	NEON-201A-ONO Starter Kit	NEON-202A-ONO Starter Kit
Computing Platform	NVIDIA® Jetson Orin™ Nano 4GB			
Storage	128G SSD			
Camera Model	NEON-202B-ONO	NEON-203B-ONO	NEON-201A-ONO	NEON-202A-ONO
Resolution	1.9M	2M	2M	8M
Resolution (HxV)	1600 x 1200	1920 x 1080	1920 x 1200	3840 x 2160
Frame Rate (fps)	60	30	60	30
Color/Mono	Color	Color	Color	Color
Shutter	Global	Rolling	Global	Rolling
Sensor Size	1/1.8"	1/3.7"	1/2.6"	1/1.8"
Pixel Size (µm)	4.5 x 4.5	2.2 x 2.2	3 x 3	2.0 x 2.0
Sensor Vendor	e2v	ON Semiconductor	ON Semiconductor	SONY
Sensor Model	EV76C570	MT9P031	AR0234	IMX334
Lens Mount	C Mount			
Image Capturing S/W	Basler Pylon		V4L2 & Gstreamer	
Image Sensor Trigger Mode	External H/W trigger, S/W trigger, free run		S/W trigger, free run	
Supported OS	Ubuntu			
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			



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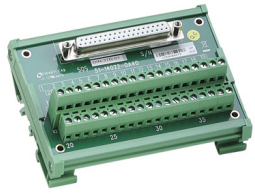
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① NEON AI Smart Camera
② USB Type-C hub/adapter/30cm USB Type-C cable (92-99090-1010)*
③ 1.8m USB Type-C cable with screw lock (30-01284-0030-A0)
④ C-mount lens, 8mm, F1.4 (92-15731-0010)
⑤ 3m DB-15 to DB-37 I/O extension cable (30-01332-0010-A0)
⑥ DIN-37D-01 IO extension board (91-14025-1020)

Note:
• Use only recommended ADLINK power adapters and cables.

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