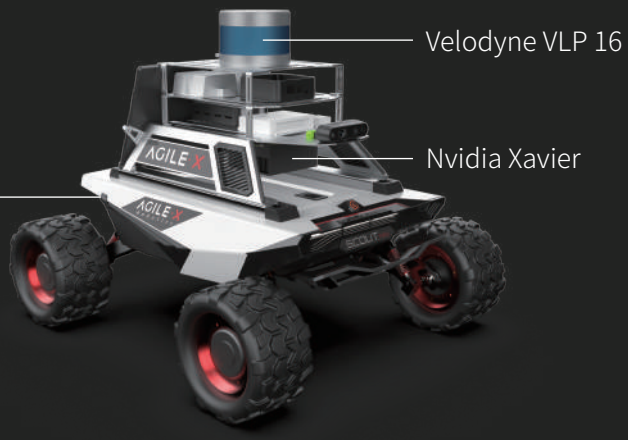


A fully integrated solution for robotics research and development with our Scout Mini platform. Equipped with a full suite of sensors to support indoor SLAM, Navigation and Vision based applications. A powerful NVIDIA Jetson Nano computer comes pre-installed with Linux and ROS Ubuntu 18.4. Scout Mini Development kit accelerates robotics applications and research by eliminating the need to design, manufacture and Integrate a complex robotic system.




Research and Development kit




Research and Development kit - Pro

## What's included?



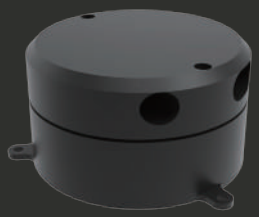
### Nvidia Jetson Nano

- ARM A57 @ 1.43 GHz CPU
- 128 Maxwell GPU
- 4GB 64 LPDDR4 25.6GB/s
- HDMI/DP, USB 3.0, USB 2.0 Micro-B



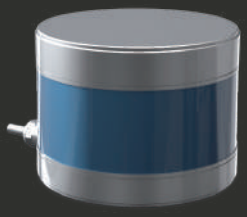
### Nvidia Xavier

- ARM v8.2 64 CPU
- 512 Tensor Core Volta GPU
- 32 GB 256 LPDDR4x
- 32 GB eMMC 5.1
- HDMI 2.0、USB 3.1、RJ45



### EAI-G4 Lidar (ADD PHOTO)

- Rotate 360-degree scanning distances measurement and 0.26-0.3° angular resolution
- 5-12Hz scanning frequency and
- 9000 times/S high-speed ranging 0.1-16m ranging radius
- magnetic wireless technology and low-loss industrial design



### VLP16 Lidar (ADD PHOTO)

- 360° horizontal scanning and 0.1-0.4° angular resolution
- ±15° Vertical scanning and 2° angular resolution
- 5-20Hz scanning frequency, up to 300,000 point-data/S output and 01-100m ranging radius
- IP67 protection level and ultra-long service life

Research and Development kit

Research and Development kit - Pro

## Intel Realsense D435 stereo depth camera



- FOV =87° × 58°
- Depth output resolution 1280 X 720
- Depth frame rate up to 90 fps
- Ideal ranger .3m to 3m

## Portable 11.6 inch monitor




- 480g/8mm ultra-thi
- 1920*1080P
- USB Type-C direct connection

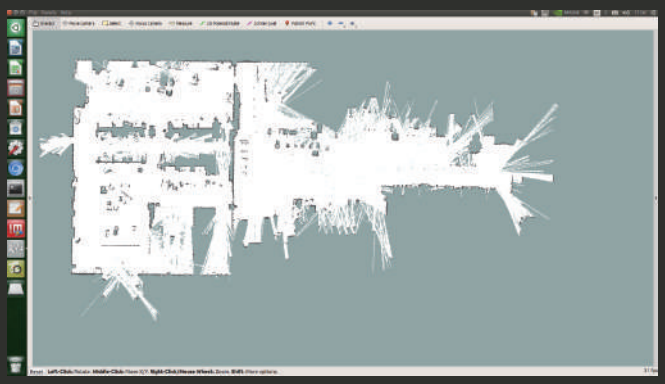
## Full integration (Hardware / Software / Mounting)




- Pre-installed with Linux and ROS Ubuntu 18.4
- Pre-installed hardware drivers allowing all sensors to be controlled by onboard PC.
- Fully integrated sensor mounting plates. Methodically designed for highest IP rating, and best placement of sensor. Allows for easy access and additional integration of new components.
- Compatible with Scout Mini, Tracer, SCOUT2,0 and BUNKER.

## Onboard open source SLAM based mapping

- Development tools include viz, Gazebo and Nomachine. Communication (Ros) nodes are provided for mapping and navigation.



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