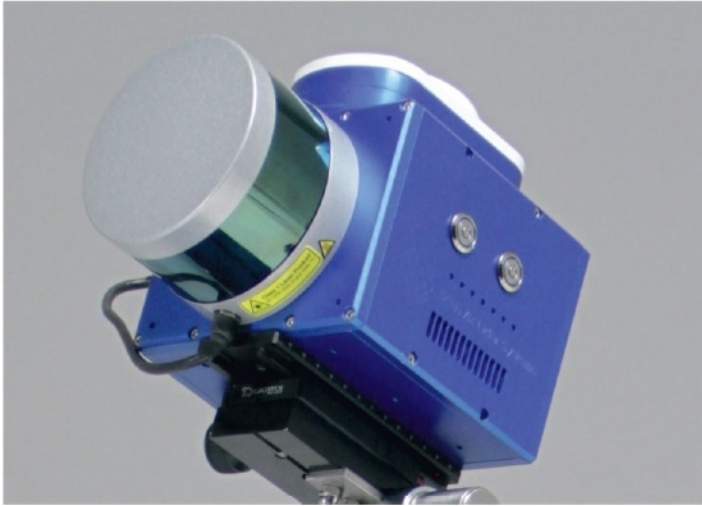


SV-16



The lightest and most compact device on the SV UNI platform. The ideal solution for scanning and photo-video shooting from the UAV or walk. The built-in double antenna solution INS, the Velodyne VLP-16 scanner, the FLIR BlackFly S camera make it possible to get colored 3D point clouds of even the most inaccessible places.



BACKPACK



UAV



CAR

FEATURES

- LIDAR Velodyne VLP-16
- Accurate internal INS (IMU+GNSS)
- Dual-Antenna, Multi-Frequency GNSS Receiver with RTK
- Modular upgrade
- Remote control via WiFi
- Integrated Web Server for Easy Control
- Many connectors for additional external equipment
- 5-12 Mpx global shutter camera
Panoramic 360 deg.
Multisensors integration interfaces

APPLICATIONS



Surveying & Mapping



Road



Construction & architecture



Natural disasters



Ecology & Natural resources



Scientific research



Infrastructure control



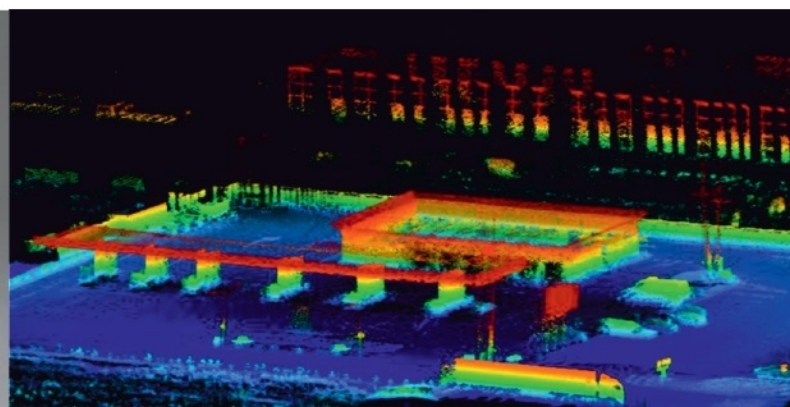
Investigation of dangerous objects



Maps for self-driving cars



Agricultural sector



SPECIFICATION

General characteristics

Dimensions: 118x124x134 mm

Weight: 1.4 kg.

Operation temperature: - 10° + 40°

Power Supply: 12 VDC

Internal equipment

Duble antenna GNSS receiver Novatel 7720

IMU Epson EG320N or ADIS16488

WiFi control

4G / LTE module or Radio transmitter

Memory capacity up 2 TB. SSD

Accuracy characteristics

Measurement Range: Up to 100m.

Accuracy: 30 mm. RMSE 45 m.

Scan rate: 600 000 points/s

IMU PP Attitude Heading RMSE 0.038 deg.

RTK solution 1 cm + 1 ppm

Possible External equipment

Two LIDAR

External GNSS/INS receiver

External IMU (FOG, MEMS)

1 or 2 Camera USB or Ethernet

Supported hardware for upgrade

GNSS recivers:	IMU	LIDAR	Cameras
SinoGNSS K726 NovAtel OEM628 NovAtel OEM7720 NovAtel SPAN-CPT	ADIS164x Epson EG320 STIM300 KVH SV-IMU	Z+F Velodyne Ouster	LadyBug 5 LadyBug 5+ BlackFly

SOFTWARE

The system is controlled via an intuitive web-based interface from any device on which a browser can be installed. The interface provides the ability to create hardware configurations and settings, allows you to manage the scanning process and quickly receive information about the current state of the system. The result of the software is a colored cloud of points in the formats LAS, LAZ, e57. It is possible to export raw data for use in third-party programs.

