lidaretto

Your personal LiDAR

drone	car	backpack	boat	tripod

One lidar

One investment

Multiple platforms

Mobile laser scanning has never been so easy.

Lidaretto is: Compact | Affordable | Flexible
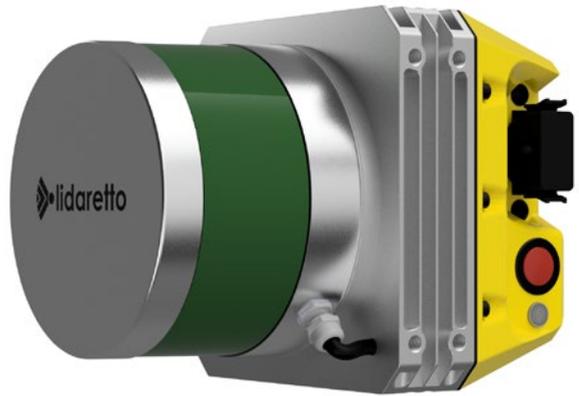
lidaretto
Y o u r   p e r s o n a l   L i D A R

One device can do more than you could expect

Lidaretto is a mobile 3D scanning system for capturing reality suitable to use either you decide to fly, drive or just walk.

Combining the proven hi-end technology by Velodyne and Novatel Lidaretto produces highly accurate point clouds for various professional applications.

Virtual Surveying

Instead of spending lot of time in the field while measuring point by point using traditional methods with RTK rovers or total stations, scan everything around with lidaretto on the car or backpack very quickly. Then pick the points of interest from the point cloud in the comfort of your office.

Power Lines

Use lidaretto for the inspection of power transmission lines providing the outputs critical for securing uninterrupted distribution of electricity.
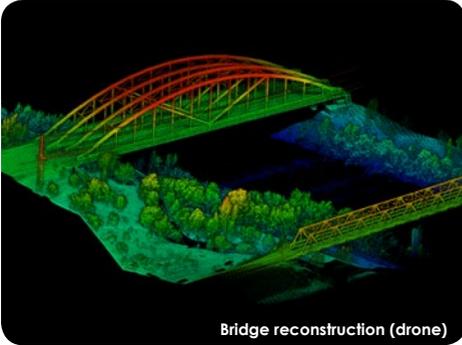
Construction

Lidaretto is an effective tool for continuous 3D mapping of the earth work progress to compute the volumes, surfaces, and topography. Ideal for roads and railways construction.
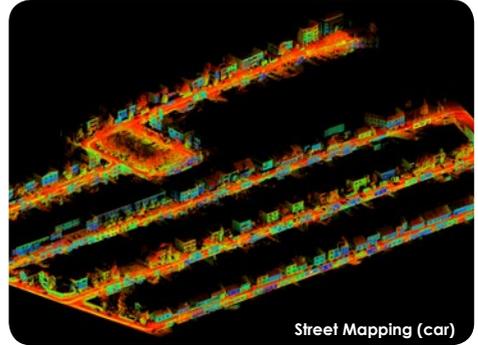
Agriculture

Lidaretto helps the farmer to find the area that uses costly fertilizers. LiDAR data can be used to create an elevation map of the farmland that can be converted to create a slope and sunlight exposure area map.

Lidaretto is an ideal tool for many field applications where accurate and reliable geospatial data are needed.

Bridge reconstruction (drone)

Street Mapping (car)

Power Line inspection (bacpack)

Agriculture land mapping (drone)

Forestry

Lidaretto is suitable for the forest industry to plan and manage, measure a vertical structure of forest canopy, measure and understand the canopy bulk density and canopy base height.

GIS data collection

Collect various feature types for planning, design and maintenance. Analyze the data from lidaretto directly in your office GIS software.

Environmental Assessment

The microtopography data generated from the lidaretto data is used for the environment assessment. Remote sensing and surface information can be used to find the area affected by human activities.

Mining and Quarrying

Use lidaretto to measure the volumes and surfaces, and for planning. Explore slope stability, do comparative analysis. Very effective and safe technology in combination with UAV.

LiDAR

Laser	Class 1 – Eye safe
Channels	16 / 32
Measure Range	100m / 120m / 200m
Accuracy	+/- 3cm (typical)
Number of returns	Max. 2
Water resistance	IP67

Velodyne Lidar

Physical parameters

Size	125mm × 125mm × 150mm
Weight	<1.5kg
Power consumption	15W stable, 24W peak
Operating temperature	0°C to +50°C
Protection	Protected against water and dust

Positioning

GNSS receiver	Novatel OEM7, 555 channels, SPAN enabled, dual GNSS (optional)
GNSS signals	GPS+GLONASS L1/L2, upgradable to GALILEO and BEIDOU
GNSS accuracy	PP 1–2cm
IMU accuracy	PP Heading/Pitch/Roll - 0.038/0.008/0.008

NovAtel OnBoard

Options

Mounting systems	Custom made for UAV, car or backpack
GNSS antennas	For UAV, car or backpack, including custom cables
GNSS postprocessing SW	Perpetual, One year or as a Service
RGB option	Additional camera for point clouds coloring

GEOTECH

Cernysevskeho 26
851 01 Bratislava, SLOVAKIA

✉ info@lidaretto.com   ✆ +421 903 443 981

www.lidaretto.com