

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 x 125mm x 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 |

NavAtz! 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 |



drone



car



backpack



boat



tripod

One lidar
One investment
Multiple platforms

Mobile laser scanning has never been so easy.
Lidaretto is: Compact | Affordable | Flexible

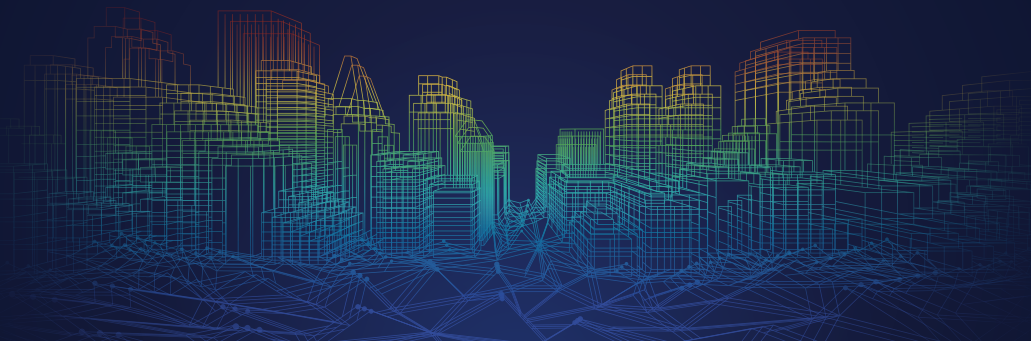
GEOTECH

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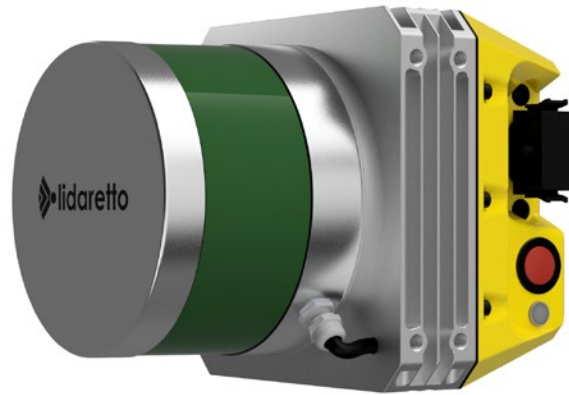
www.lidaretto.com



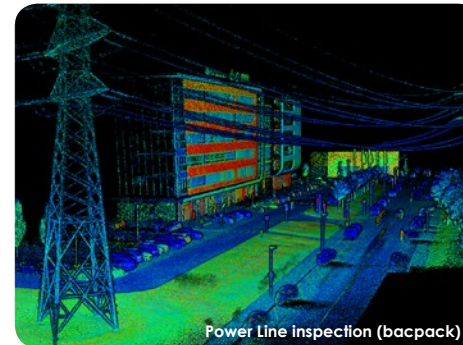
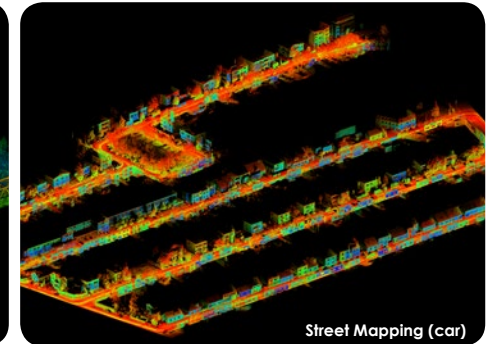
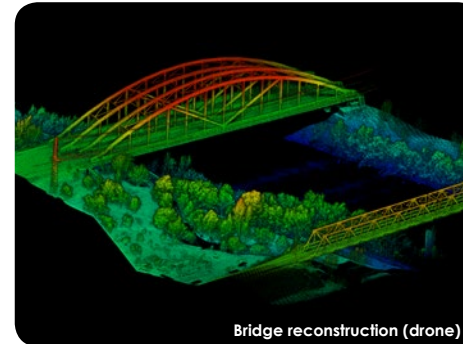
One device can do more than you could expect

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.



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



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.

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.

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.

GIS data collection

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

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.