

Lidar Module

Models	Hesai XT32 (H32) Hesai XT32M2X (H32X)
Channels	32
Max. Range	120m (H32) / 300m (H32X)
Range Accuracy	+/- 1cm (typical)
Number of Returns	2 (H32)/ 3 (H32X)
Durability	IP67 -20°C to +60°C



Physical Parameters

Size	125mm x 125mm x 150mm
Weight	1.5kg (H32)/ 1.2kg (H32X)
Power Consumption	15W stable, 24W peak
Operating Temperature	-5°C to +50°C
Protection	Protected against water and dust

Positioning

GNSS Receiver	Novatel OEM7, 555 channels, SPAN enabled, dual GNSS capable
GNSS Signals	GPS + GLONASS + GALILEO + BEIDOU, L1/L2
GNSS Accuracy	PP 1-2cm
IMU Accuracy	PP Heading/Pitch/Roll - 0.010/0.005/0.005 deg



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	Multiple cameras options for point clouds colorization



uav



car



backpack



boat



train

One Lidar
One investment
Multiple platforms

GEOTECH

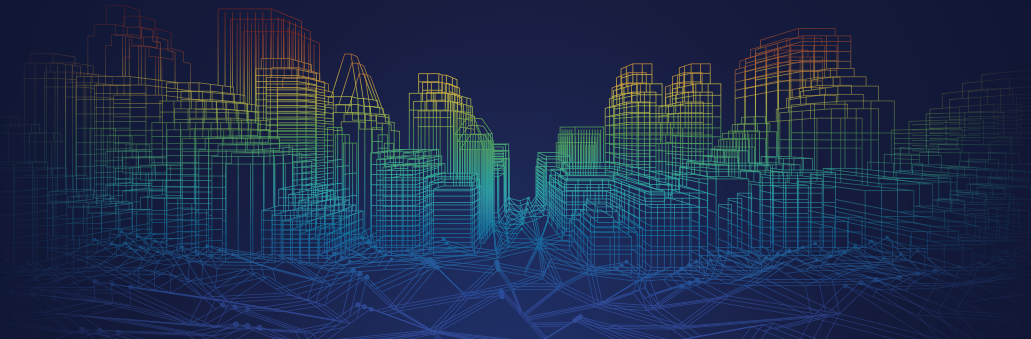
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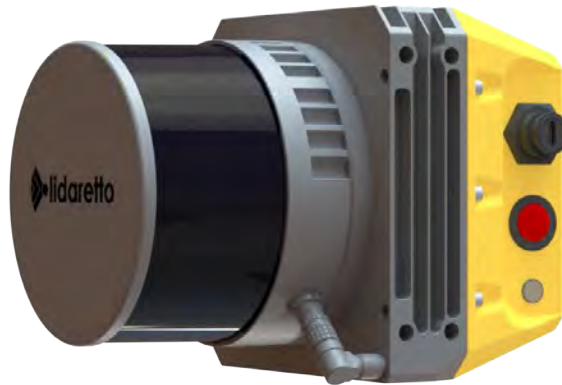
Mobile laser scanning has never been so productive
Lidaretto is: Compact | Rugged | Flexible | Affordable



One device can do more than you could expect

Lidaretto is mobile 3D scanning system for capturing reality designed to be easily mounted either on UAV, car, backpack, boat or even train.

Combining proven hi-end technologies by Hesai and Novatel Lidaretto produces highly accurate point clouds for various professional applications.



Surveying

Instead of spending lot of time in the field while measuring point by point using traditional methods with RTK rovers or total stations, you can scan everything around with Lidaretto very quickly. Then generate desired output from the point cloud in the comfort of your office.

Powerlines

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

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 GIS 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.

