

GEOLIDAR ALS V2 (AERIAL LASER SCANNING)



Compatible with Products:



Multirotor



VTOL

1

Able to provide data with accuracy up to the centimeter level.

2

Can be mounted on various types of drones.

3

Generates high-detail 3D models.

4

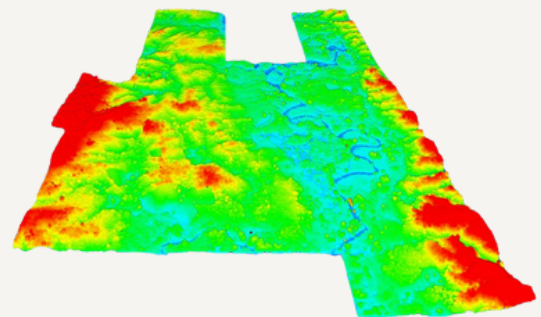
Compatible with various GIS and CAD software.

5

Compatible for aerial photography using Multirotor and VTOL types.

About GeoLiDAR ALS

GeoLiDAR ALS (Aerial Laser Scanning) is a next-generation laser scanning solution specifically designed for high-precision LiDAR point cloud data mapping acquisition. The GeoLiDAR system integrates laser scanning technology, GNSS, IMU, and a storage control unit into one efficient package, making it ideal for implementing 3D spatial information acquisition in surveys, powerline inspections, forestry, agriculture, land planning, and infrastructure development.



About GeoLiDAR ALS

GeoLiDAR ALS is a mapping technology that utilizes a laser sensor specifically integrated with UAVs, operating by emitting laser pulses to detect objects. This scanning process calculates and collects topographic information and surface characteristics in detail. The generated data is in the form of a point cloud that creates a 3D model of the Earth's surface, covering elements such as forests, vegetation, and other environmental features. This makes GeoLiDAR ALS highly valuable for environmental monitoring and analysis. By combining GNSS positioning modules, the collected data achieves high accuracy, ensuring precise and reliable mapping results.

Parameters	Weight	1015g
	Dimensions	12,5 x 9,8 x 11,4 cm
	Measurement Accuracy	Less than 10 cm (110 m AGL).
	Operating Temperature	-20 °C ~ + 55 °C
	Power Range	12V~16V / 20W
	Storage Capacity	Micro SD 64 GB - 256 GB
Lidar Unit	Accuracy Range	2cm
	Measurement Range	190m@10% Reflectivity
	<i>Laser Class</i>	905nm Class1 (IEC 60825-1:2014)
	Data Output	Triple-echo, 720,000 Points/Sec
	FOV	70° the circular view
Unit Performance	Update Frequency	200HZ
	Heading Accuracy	0,040°
	Pitch Accuracy	0,015°
	Rolling Accuracy	0,015°
	Position Accuracy	0,02 - 0,05m
	GNSS Signal Type	GPSL1/L2/L5 GLONASSL1/L2 BDS B1/B2/B3 GAL E1/E5a/5b
Pre-processing Software	POS Data	Obtained information: position, speed, altitude.
	Point Cloud Data	oint cloud data format: LAS format, special TXT format.
RGB Camera	FOV	84 Degrees
	Resolution	15 Megapixel
	<i>Trigger event</i>	By signal autopilot (distance)
Certifications	TKDN	>25%