

Z-Lab LiDAR-eco

An Economical Solution Tailored to LiDAR Beginners

- scanner accuracy down to 2 cm optimal
- measuring range up to 260 m maximum
- scan rate at maximum 480,000 pts per sec



"With remarkable scanning range, point density and measuring accuracy, Z-Lab LiDAR-eco is an economical UAV-based solution suited to those dedicated surveyors starting LiDAR business, as it features amazing performance at a comparably affordable rate." said Dr. Ruofei Zhong, CEO of Z-Lab LiDAR.











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Plan



LiDAR-eco
UAV-based recommended
81.7° (H.) × 25.1° (V.)
approx. 1.59 kg
77 x 115 x 208 mm
20-50 W
DC 12-30 V
0°C up to +40°C
-20°C up to +50°C
GPS/Glonass/Beidou
±3 deg/hr
±490 deg/sec in all axis
±16 g in all axis

Scanner Type	solid state sensor
Laser Safety	Class 1 (IEC 60825-1:2014)
Laser Wavelength	905 nm
Scanner Ingress Protection	IP 67
Scanner Precision	optimal 2 cm ^①
Absolute Accuracy	down to 5cm, typical 10-20 cm $^{\odot}$
Angular Resolution	<0.05 deg (1ơ)
Measuring Range	max. 260 m @ 80% reflectivity
Scanning Height	typical 10-200 m, best below 100 m
Number of Echoes	max. 2 returns
Measurement Rate	240,000 pts per sec (single
	return); 480,000 pts per sec
	(dual return)

The specification above will be subject to change without prior notice.

Note:

1 It was obtained in an environment of 25°C with a target of 80% reflectivity 20 meters away. The result might vary under different actual conditions.

(2) The performance will vary depending on the flight altitude, pulse reflectivity, vegetation density, terrain feature, etc.





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