

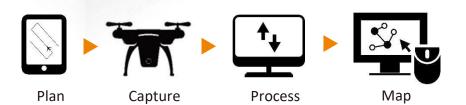
## **Z-Lab LiDAR-eco Pro**

An Economical Solution Tailored to LiDAR Beginners

• scanner accuracy down to 2 cm optimal



"With remarkable scanning range, point density and measuring accuracy, Z-Lab LiDAR-eco Pro 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.







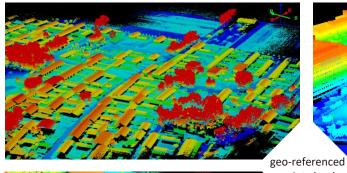
Option 1: DJI Matrice 600 Pro (to fit LiDAR-eco Pro + camera)

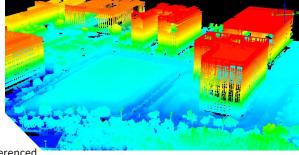


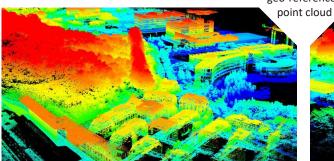
Option 2: DJI Matrice 200 V2 (to fit LiDAR-eco Pro only)

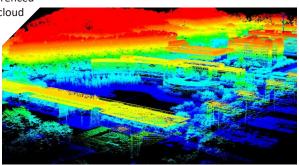


Option 3: DJI Matrice 300 RTK (to fit LiDAR-eco Pro only)









Model Code	. LiDAR-eco Pro
Application Mode	UAV-based recommended
Field of View	. 70.4° (H.) × 77.2° (V.)
Net Weight (w/o camera)approx. 950 g	
Dimensions (LxWxH)	. 71 x 100 x 145 mm
Power Consumption	. 20-50 W
Input Voltage	. DC 12-30V
Operating Temperature	. 0°C up to +40°C
Storage Temperature	-20°C up to+50°C
Constellation Support	. GPS/Glonass/Beidou
Gyroscope Bias Stability	. ±3 deg/hr
Gyroscope Range	. ±490 deg/sec in all axis
Accelerometer Range	±16 g in all axis

Scanner Typesolid sta	atesensor
Laser Safety Class 1 (	IEC 60825-1:2014)
Laser Wavelength905 nm	
Scanner Ingress Protection P 67	
Scanner Precisionoptimal	2 cm <sup>①</sup>
Absolute Accuracy down to	5cm, typical 10-20 cm <sup>②</sup>
Angular Resolution<0.05 d	eg(1σ)
Measuring Range max. 45	0 m @ 80% reflectivity
Scanning Heighttypical 5	60-200 m, best below 150 m
Number of Echoes max. 3r	eturns
Measurement Rate 480,000	pts per sec (dual
return);	720,000 pts per sec
(triple r	eturn)

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

- 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.







