

## **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.

(V. 2020AUG)







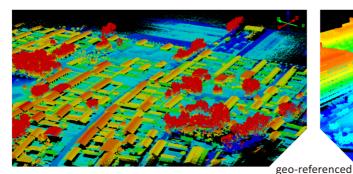
Option 1: DJI Matrice 600 Pro (to fit LiDAR-eco + camera)

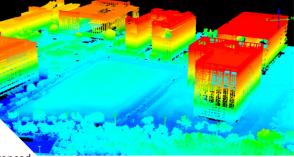


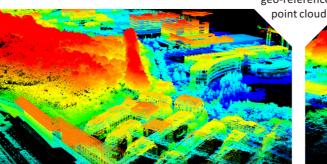
Option 2: DJI Matrice 200 V2 (to fit LiDAR-eco only)

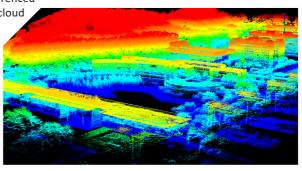


Option 3: DJI Matrice 300 RTK (to fit LiDAR-eco only)









Model Code	LiDAR-eco
Application Mode	UAV-based recommended
Field of View	81.7° (H.) × 25.1° (V.)
Net Weight (w/o camera)	approx. 1.59 kg
Dimensions (LxWxH)	77 x 115 x 208 mm
Power Consumption	20-50 W
Input Voltage	DC 12-30 V
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 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 ®

 Absolute Accuracy
 down to 5cm, typical 10-20 cm ®

 Angular Resolution
 <0.05 deg (1σ)</td>

 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  $25^{\circ}$ 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.



## **SOUTH PRECISION INSTRUMENT PVT. LTD.**

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