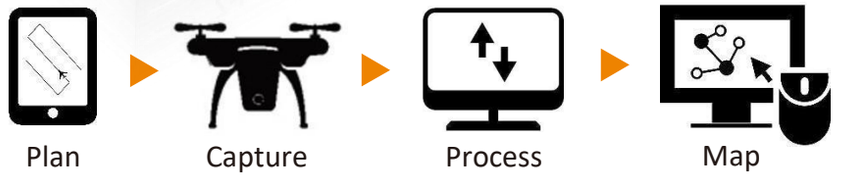
KOLIDA

Z-Lab LiDAR-eco Pro

An Economical Solution Tailored to LiDAR Beginners

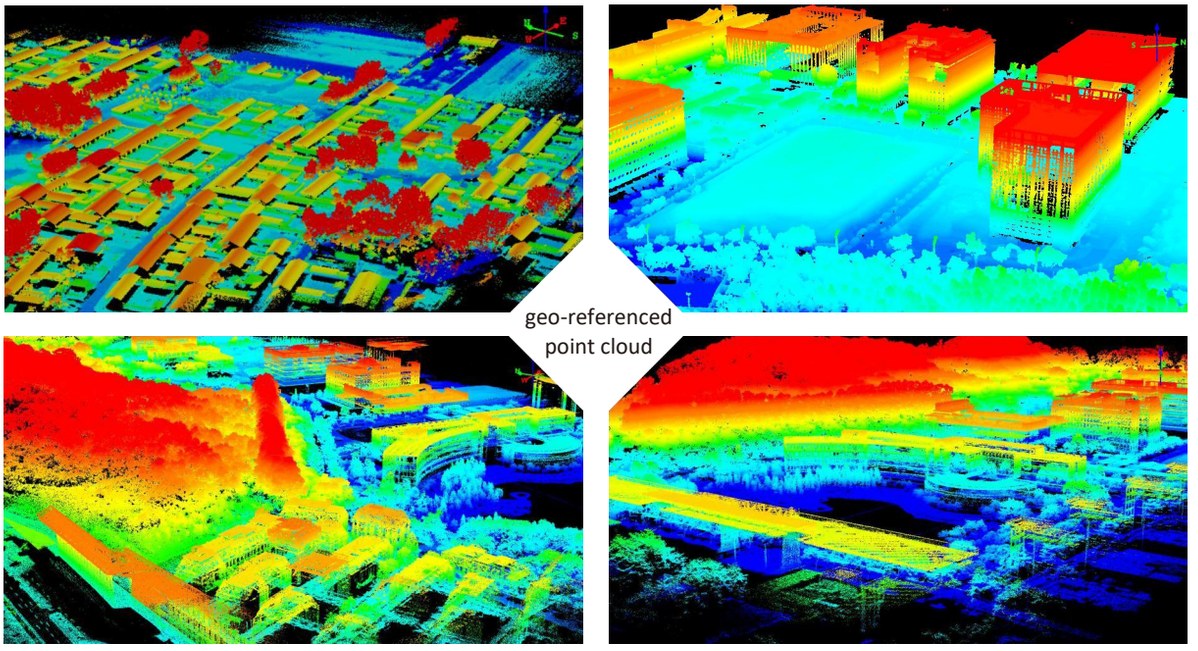
- scanner accuracy down to 2 cm optimal
- measuring range up to 450 m maximum
- scan rate at maximum 720,000 pts per sec

"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.



Z-Lab LiDAR

DJI Matrice 300 RTK
(to fit LiDAR-eco Pro + camera)



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 145mm
Power Consumption..... 20-50 W
Input Voltage..... DC 12-30V

Operating Temperature..... 0℃ up to +40℃
Storage Temperature..... .. -20℃ up to+50℃
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..... P 67
Scanner Precision..... optimal 2 cm ①
Absolute Accuracy..... down to 5cm, typical 10-20 cm②
Angular Resolution..... <0.05 deg(1σ)
Measuring Range..... max. 450 m @ 80% reflectivity
Scanning Height..... typical 50-200 m, best below 150 m
Number of Echoes..... max. 3returns
Measurement Rate..... 480,000 pts per sec (dual return); 720,000 pts per sec (triple return)

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

Note:
① It was obtained in an environment of 25℃ 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.