

Specification

Z-Lab LiDAR-eco	Model Code	LiDAR-eco Pro
	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 ①
	Absolute Accuracy	down to 5cm, typical 10-20 cm ②
	Angular Resolution	<0.05 deg (1σ)
	Measuring Range	max. 450 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); 720,000 pts per sec (dual return)