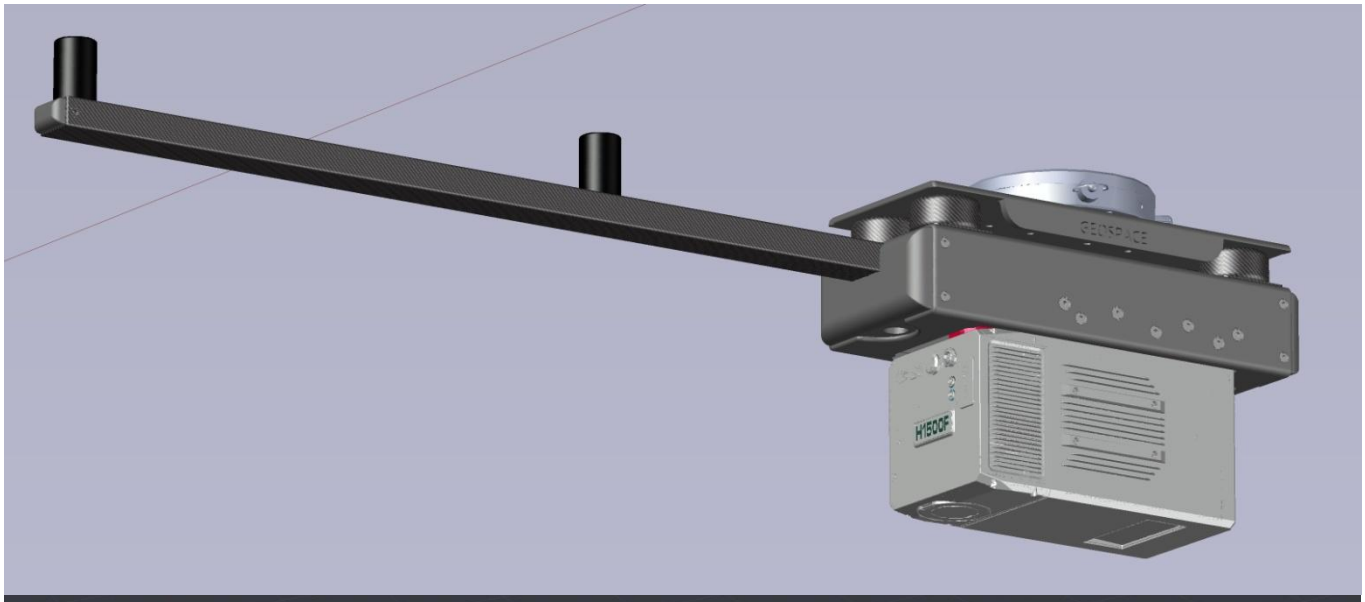
GS-2000-H LiDAR Sensor and Helicopter mounting system

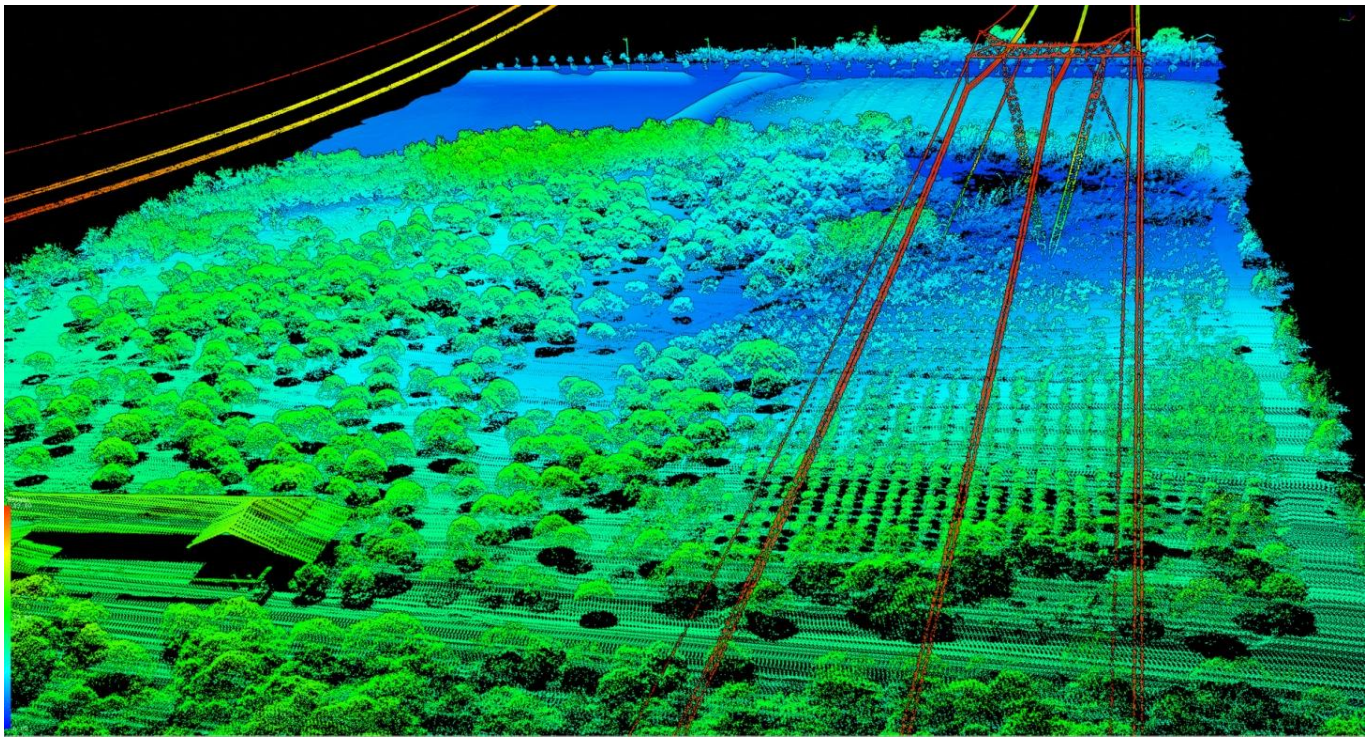
System Features:

- Fully integrated vibration isolation system, tuneable to individual airframe vibration modes
- Integrated dual GNSS antenna boom and Dual GNSS receivers for precise alignment at hover and low speed turns
- Extreme high data rate IMU (1000Hz) for precise kinetic processing and point accuracy at swathe extremes
- Certified Meeker QD attachment head ready to bolt to your airframe bracket
- Precision GNSS Helical Antennae with no ground plane blocking of satellite horizon
- Real Time points display for reliable asset tracking during flight

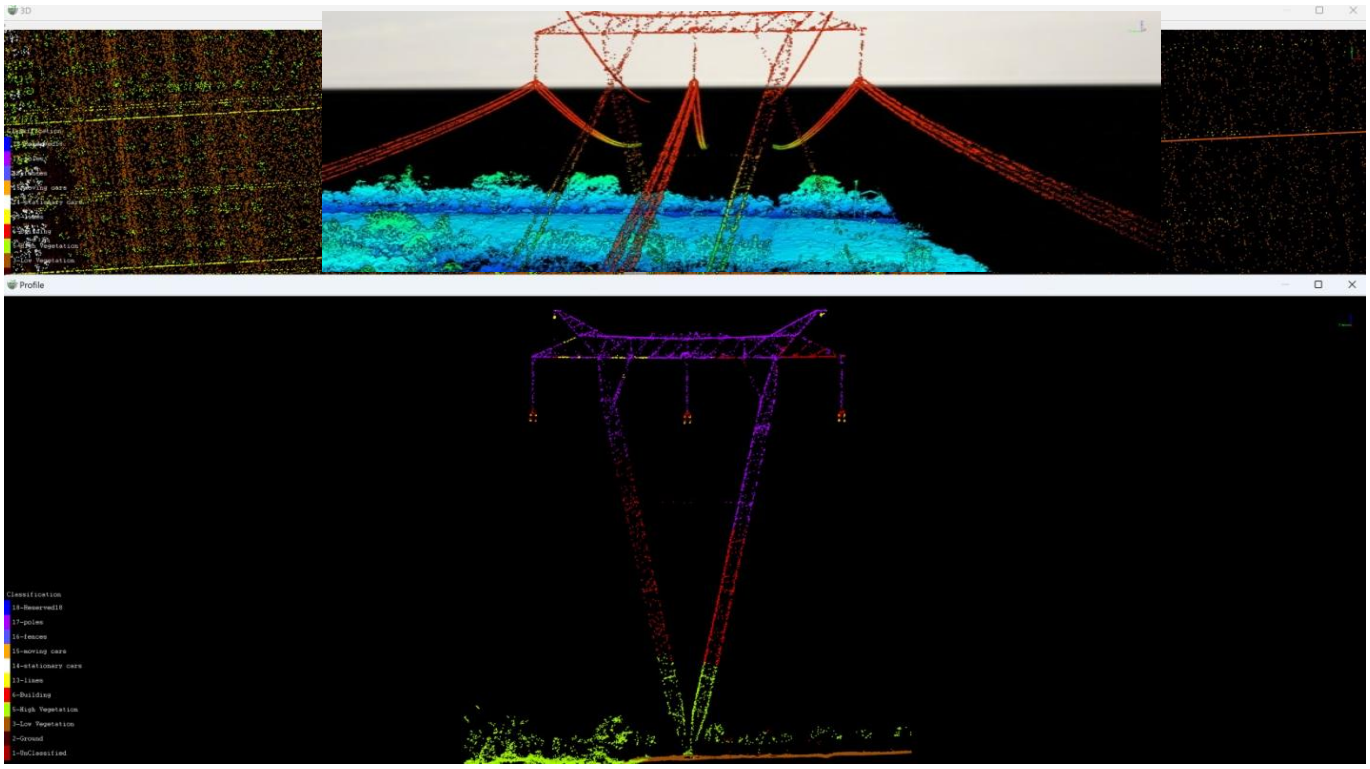


Geospace NZ Ltd
www.geospace.co.nz
29G Peters Way Silverdale Auckland
sales@geospace.co.nz

High Density points cloud giving precise definition of clearances



High Precision points cloud data

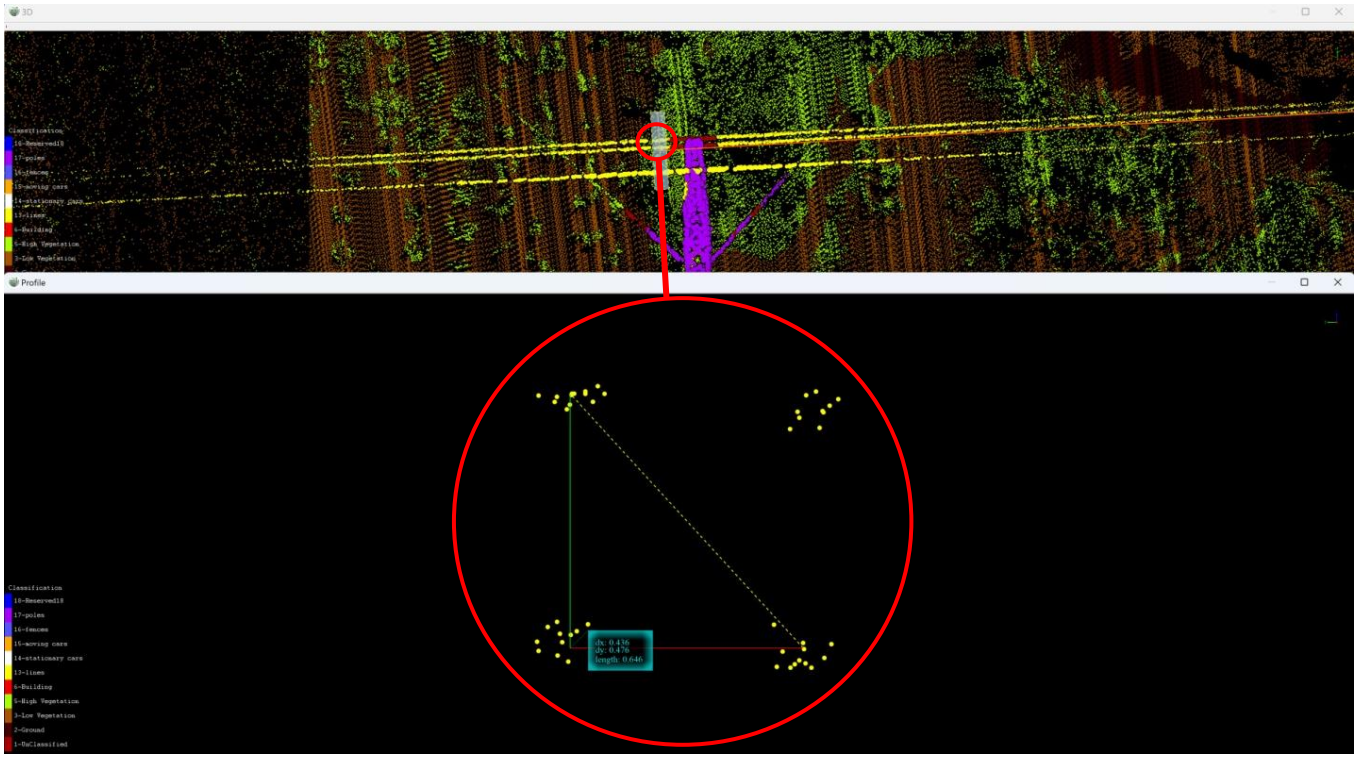


Geospace NZ Ltd
www.geospace.co.nz

29G Peters Way Silverdale Auckland
sales@geospace.co.nz

LiDAR precision aids automated stress analysis in post processing

Precise measurement of lines spacing possible even for quad bundled lines



Associated software

- LiAir Flight management App
- Ligeoreference for POS and Georeferencing raw data
- LiDAR360 for extended processing for Powerlines, Terrain, Forestry projects

Geospace NZ Ltd
www.geospace.co.nz
29G Peters Way Silverdale Auckland
sales@geospace.co.nz

GEOSPACE

Specification of GS-2000 LiDAR Scanning System

	Item Name	System Parameters
GS-2000-H System Parameters	Weight	4.5kg
	Working temperature	-20℃~+60℃
	Power range	18 V- 24 V
	Consumption	65 W
	Carrying Platform	6 Axis Multi Rotor Drone, VTOL, Helicopter
	Storage	256GB TF card
Laser Unit GVI H1500F	Measuring Range	See chart for PRR at various range and reflectivity
	Laser class	1550 nm Class1 (IEC 60825-1:2014)
	Laser Scan Rate	300 scan lines per second
	Measuring accuracy	3mm@100m (system accuracy <5cm @ 200m)
	Max. range	1500m
	Return	Up to seven measurements per pulse
	PRR	100kHz to 2000kHz, adjustable
	Beam Divergence	0.3mrad
	FOV	75 degrees
POS Unit	Update frequency	1000Hz
	Heading accuracy	0.010° (Dual GNSS provides static heading)
	Pitch accuracy	0.005°
	Rolling accuracy	0.005°
	Position accuracy	Horizontal: 0.01m, Vertical: 0.02m PPK
	GNSS signal type	GPSL1/L2/L5 GLONASSL1/L2 BDS B1/B2/B3 GAL E1/E5a/5b
	IMU	
Pre-processing software	POS software	LiGeoreference (included in system)
	Point cloud software	Output point cloud data format: LAS format Post Processing in LiDAR360 and LiPowerline
Camera (built-in)	FOV	8184 x 5460 pixels (300m x 200m on ground at 300m AGL)
	Effective Pixel	45 MP (Full Frame Camera)
	focal Length(mm)	21mm (effective GSD 4cm at 200m AGL)

Operating Range Chart