



Dynamic LiDAR Moving Platform

Speed, Accuracy and Coverage

The Dynamic LiDAR Moving Platform is a tightly coupled subsea LiDAR and Inertial Navigation System (INS) data collection technology that increases subsea survey efficiencies in terms of speed, accuracy and coverage. The subsea LiDAR system provides different scan patterns only available through a controllable beam. Data collection resolution can be configured by the user for defined cross and forward track resolution. The result is a mobile mapping solution with unparalleled range and measurement repeatability while the vehicle is in motion. These key capabilities provide minimal risk to collision for congested areas and sensitive archeological, historical and environmental sites.

- Accurate, Precise, High Density 3D Point Clouds
- Flexible Deployment and Integration with ROVs, AUVs, surface vessels
- Non touch, low environmental footprint
- Controllable beam: configurable for high density scanning of objects/asset/environments
- Depth Rating: SL 1 - 3,000m

Applications:

Field Surveys:

- Field Mapping, Infrastructure Identification
- Pipeline Inspection
- Spool Metrologies
- Leak Detection / Monitoring
- Debris Clearance Surveys
- Riser and Jacket Scanning
- Chain Inspection

Asset Inspection:

- Integrity
- 3D Spatial Measurement
- Pipeline Integrity and Freespan Identification / Measurement
- Pipeline Curvature / Torsional Rotation
- Touchdown Monitoring



	SL1	SL2
Field of View	30 x 30	30 x 30
Data Collection Speeds	Station Keeping to 2000m/hr	
Sensor Range	2m – 40m max	
Max Water Depth	3000m	1500m
Laser Class	Class 1 (air) to Class 3B (Subsea)	
Data Collection Rate	40,000 points per second	
Data Transfer	Ethernet Gbit LAN	
Point Cloud Format	LAS, 3DC, e57	
Power Supply	110 VAC ~5.0 amps inrush with 2 amps continuous	
Weights (in water)	225 lb	140 lb
Time Sync	3D at Depth – PCI FiT	
Positioning	iXblue Inertial Aided with optional USBL or LBL	

Ignite the Green

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