SPIDAR VERTICAL PROFILER

COMPLETE LIDAR SOLUTIONS

Our decade-long remote sensing journey has led us to Spidar, a flexible, highly mobile Direct Detect Lidar that can lower the cost and measurement uncertainty of your campaigns.

Key Benefits:

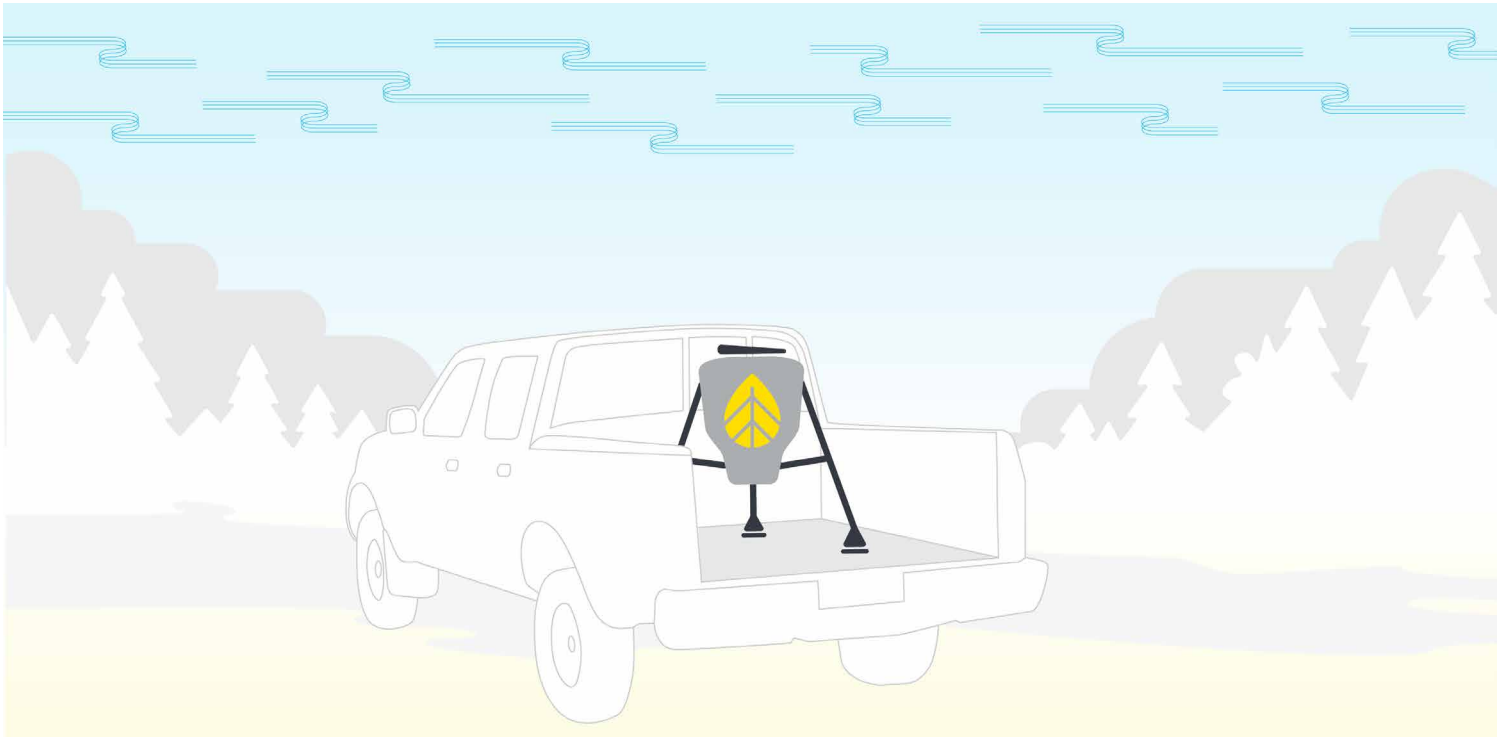
- DNV GL Stage 2 status, capable of adding value to wind energy projects with campaign finance requirements
- Over a dozen performance verifications carried out by several leading, independent consultants
- Advantages of remote sensing at a lower cost than other Lidars and lattice towers
- Available in all regions via Global Value Added Reseller network
- Comprehensive technical support and integrated services for all project development stages
- Turnkey installations that meet project-specific needs, including remote power supplies

NRGSystems®

SPECIFICATIONS:

SYSTEM	
Description	Ground-based vertical profiling Direct Detect Lidar (DDL)
Applications	Prospecting, wind shear validation, informal turbine power performance testing
Calibration	All units factory verified against IEC calibrated reference Lidar. IEC calibration available upon request.
Warranty	2 years
VERIFIED WIND MEASUREMENT PERFORMANCE	
Measurement Height	100m
WS Forced Fit Slope	.996
WS Correlation R^2	.979
WS Deviation (±m/s)	0.04 @ 10 m/s
WS Deviation (%)	0.40%
SYSTEM GEOMETRY	
Full Cone Angle	10°
Measurement Height Range	20-200m
Number of Range Gates	10
Range Gate Heights	Configurable

ELECTRICAL SPECIFICATIONS	
Power Consumption	• > 0°C: 35W • < 0°C: 50 to 100W
Supply Voltage	23-32 VDC
DATA SPECIFICATIONS	
Data Sampling Rate	14 Hz
Averaging Interval	Configurable
Storage File Format	ASCII
Storage Capacity	~3 years
Data Output Options	• .csv files delivered via email at configurable interval • Continuous delivery to SCADA network via Modbus
ENVIRONMENTAL SPECIFICATIONS	
Operating Temp Range	-40° to 50°C
Operating RH Range	0 to 100%
Ingress Protection	IP65
Eye Safety Classification	IEC Laser Class 1M



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ISO 14001: 2015 Self-Certified

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