



WINDCUBE

Vertical Profiler Lidar



With over 750 systems manufactured and thousands of campaigns across 50+ countries, the Windcube is the reference wind Lidar vertical profiler. Windcube accurate real-time 3D-wind data are bringing new perspectives for a broad range of applications.

Hardware and software standard features

- Ultra-portable, instant setup
- Silent and discreet operation suitable for urban & industrial sites
- Unique system for onshore and offshore operations
- Access to the Windweb cloud-based platform for Lidar system, user and campaign management
- 3 year warranty and maintenance cycle, with onsite maintenance service options, for increased uptime and lower total cost of ownership

Applications

- Boundary Layer studies
- Air Quality model parametrization
- Wind hazard prevention
- Local meteorological condition monitoring
- Hyperlocal weather forecasting
- Forest Fire management
- CBRN risk management
- Ballistics
- VOC dispersion





PERFORMANCE

Range	from 40m up to 290 meters
Data sampling rate	1 Hz
Measuring distances	12 user defined distances simultaneously
Speed accuracy	0.1 m/s typical
Speed range	0 to +60 m/s
Direction accuracy	2°
Beam geometry	4 inclined beams at 28° + 1 vertical beam



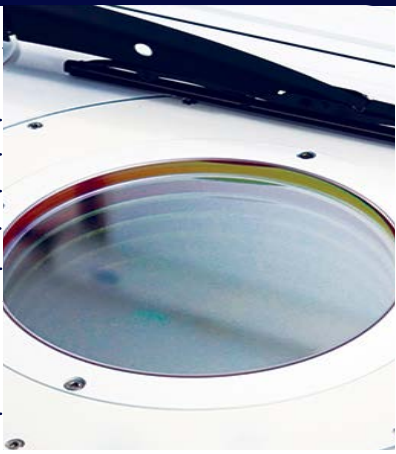
DATA

Output data	1s/1,2,5,10min averaged (user defined)
	horizontal and vertical wind speed
	Standard deviation
	Direction
	CNR (signal to noise ratio)
Complex terrain measurements	GPS coordinates
	Data availability
	FCR unlimited license
Data storage	120 GB industrial disk
	Windweb secure cloud-based server
Data format	.RTD and .STA (file), UTF-8 Encoding
Communication	LAN, USB, 3G modem, Modbus RTU (gateways available), Wi-Fi
Time synchronization	GPS, NTP



OPERATIONS

Warranty and maintenance	3 year cycle (factory or onsite maintenance)
Dimensions	L55 cm, W56 cm, H55 cm
Weight	46 kg
Power consumption	45 W
Temperature range	-30°C to +45°C / -22°F to 113°F
Housing classification	IP 67 (inner rack)
Operating humidity	0% to 100% RH (non-condensing)
Rain protection	Wiper
Marine atmosphere	IEC 60068-2-11
Shocks & Vibration	ISTA / FEDEX 6B
Laser safety	1M Class / EN 60825-1:2014
Compliance	CE, FCC, ICES



About Leosphere

Leosphere, founded in 2004, is the world leader in ground-based and wind turbine-nacelle mounted Lidar (Light Detection and Ranging) equipment for atmospheric observation. The company designs, develops, manufactures, sells and services turnkey remote-sensing instruments for wind measurement and aerosol characterization.



For more information

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