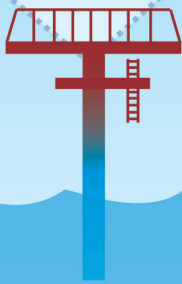


# WINDCUBE<sup>®</sup> v2 OFFSHORE

Vertical Profiler  
Doppler LIDAR

SITE ASSESSMENT



Leosphere

Global Partners in Lidar Wind Technologies

The WINDCUBE® v2 Offshore is the most flexible and cost effective solution to measure accurately the wind components up to 200m on any offshore fixed platform. Specially dedicated to marine environment, it offers a highly reliable solution in complement or replacement to traditional masts.

## Reduce Capital Expenditures

**Accurate, easy to deploy, and affordable equipment** is needed to measure the wind on stable or moving platforms located several kilometers from the shore.

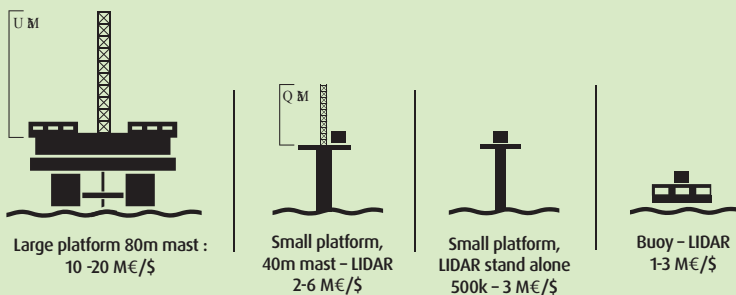
**Installations of offshore met masts on large and heavy platforms** require large vessels, weeks of work by highly trained technicians and engineers, and calm sea conditions. This costs millions and is dramatically time consuming in a wind farm project.

**The reduction of capital costs required for assessing the wind resource offshore** with high accuracy at modern hub heights has therefore become a critical challenge for the offshore wind industry. A LIDAR remote sensor integrated on a stable platform or buoy is the most cost effective and optimized solution currently available.



## The 200m ultra portable wind profiler

### Budget range for various wind measurements solution



**The original WINDCUBE v2 Lidar Remote Sensor is already in use in more than 20 countries worldwide**, in various applications, from early stage prospecting and bankable resource assessment to site suitability measurements and power performance verifications.

**The WINDCUBE v2 Offshore uses the same technology core as the standard WINDCUBE v2** and has been reinforced to operate for extended periods in harsh sea conditions (saltwater, humidity and bird presence).

**It is the ultimate wind measurement tool** to reduce both investment costs and uncertainties thanks to 200m wind measurements.

## Optional Features



### WINDCUBE® Power Pack

The WINDCUBE power pack is the ultimate solution for remote locations. Ultra-portable, green and affordable, this stand-alone power supply is available worldwide.



### WINDCUBE® Anywhere SAT / 3G

The built-in modem card provides a secured web-based interface from any location. The WINDCUBE Anywhere option features:

- Remote access to real time data
- System health monitoring
- Data management



### GPS Geofencing Security

The optional GPS geofencing security provides reliable, affordable peace of mind.

## PERFORMANCES

<b>Range</b>	40 to 200m
<b>Data sampling rate</b>	1s
<b>Number of programmable heights</b>	12
<b>Speed accuracy</b>	0.1 m/s
<b>Speed range</b>	0 to +60 m/s
<b>Direction accuracy</b>	2°

## HARDWARE AND ENVIRONMENTAL

<b>Dimensions</b>	L-W-H : 543 x 552 x 540 mm
<b>Weight</b>	45 kg
<b>Power consumption</b>	45 W nominal
<b>Environmental</b>	<ul style="list-style-type: none"> <li>• Salt atmosphere compliant IEC 60068-2-52</li> <li>• Temperature range -30°C to +45°C/-22°F to 108°F</li> <li>• Operating humidity: 0 to 100% RH (non-condensing)</li> <li>• Housing classification IP67 (for inner racks)</li> </ul>
<b>Safety</b>	Class 1M IEC / EN 60825-1
<b>Compliance</b>	CE

## SOFTWARE / DATA

<b>Data format</b>	ASCII
<b>Data storage</b>	SSD and compact flash (backup storage)
<b>Data transfer</b>	LAN/USB
<b>Standard WIND-SOFT™ Software</b>	<ul style="list-style-type: none"> <li>• Configuration and control</li> <li>• Real time display</li> <li>• Diagnostic</li> </ul>
<b>Output data</b>	<ul style="list-style-type: none"> <li>• 1s/10min horizontal &amp; vertical wind speed</li> <li>• Min &amp; Max</li> <li>• Direction</li> <li>• SNR Quality factor (data availability)</li> <li>• GPS coordinates</li> </ul>

- Ultra portable (45 kg)  
simple installation on stable platforms
- Lowest cost of ownership
- Class 1 anemometer matched accuracy
- Unmatched reliability and data availability
- Backed by industry leaders



For further information about

**WINDCUBE<sup>®</sup> V2**  
**OFFSHORE**

please contact us: [info@leosphere.com](mailto:info@leosphere.com)

[www.leosphere.com](http://www.leosphere.com)

LEOSPHERE is a world leader in LIDAR (laser radar) atmospheric remote observations. The company develops, sells and services new turnkey remote-sensing instruments allowing wind measurement and aerosol (ice, ash, dust, smoke) characterization.

LEOSPHERE has deployed hundreds of LIDARs throughout the world in severe environments with the same concern of reliability, reduction of operational costs for clients, and dedication to atmospheric hazards control.



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WIND POWER 

WEATHER & CLIMATE 

AVIATION WEATHER 

AIR QUALITY & INDUSTRIAL RISK 