

# WindMast WP350

## Vertical Wind Profiler



### PRODUCT DESCRIPTION

- WindMast WP350 is a type of "met tower replacement" pulse coherent wind lidar, characteristic of small size, low power consumption and high data precision. It is designed and manufactured, completely compliant with IEC61400-12-1:2017 standard.
- It can acquire wind speed and wind direction profile at height of 40m~350m above the lidar all day, with >20 range gates.
- Suitable for wind resource survey and evaluation, power curve test of wind turbine, wind power prediction, wind shear analysis of complex terrain, research of air-sea boundary layer dynamics etc.

GEOSPACE



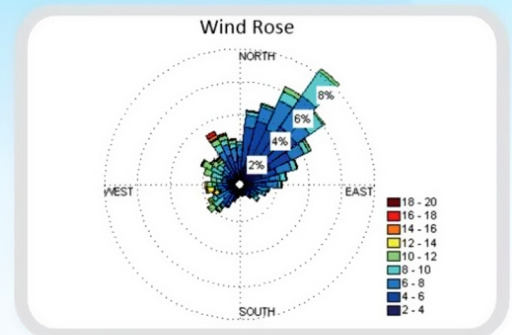
Product Display

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## Vertical Wind Profiler

### Functional features and advantages

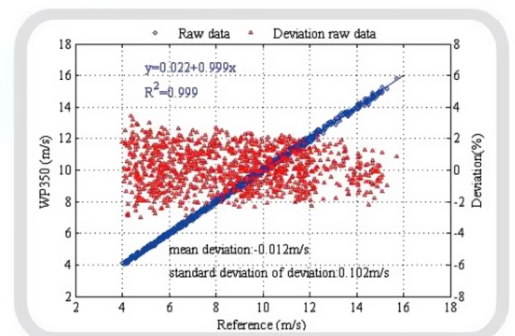
- Wide detection range: 40m ~ 350m, suitable for various impeller diameter and installation environment.
- High precision: 0.1m/s, compliant with IEC61400-12-1:2017 standards.
- High resolution: data refresh rate at second, 1m distance resolution.
- Portable: small in size, light in weight, low in power consumption, convenient for transport.
- Flexible deployment: easy operation, powered by complementary wind and solar power or fuel cell.
- Unattended: remote access of data acquisition and equipment monitoring.
- High reliability: continuous and stable operation in harsh onshore and offshore environments.



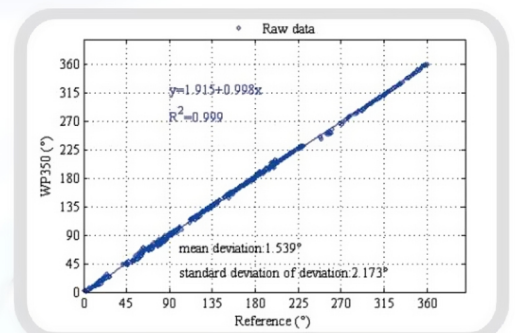
Rose chart of wind velocity and wind direction

### Technical specifications

Specifications	Parameter
Detection range	40m~350m
Range gates/resolution	20range gates configurable, 1m resolution
Wavelength	1550nm, eye safe, invisible
Data refresh rate	1s/1min/2min/5min/10min configurable
Wind velocity range	0~75m/s
Wind velocity accuracy	≤ 0.1m/s
Wind direction accuracy	< 3°
Data output	1-second wind velocity and wind direction, time-average wind velocity and wind direction, vertical wind velocity, min./max. horizontal wind velocity, mean square deviation of wind velocity (turbulence intensity), wind shear index, SNR, GNSS position and time, lidar status, surface atmospheric temperature, humidity and pressure etc.
Weight	<30kg



Correlation analysis of wind velocity



Correlation analysis of wind direction