MOVELASER

Ground-based Wind Lidar Molas B300

Molas B300 is based on the Doppler frequency effect, through the VAD scanning vector synthesis technology, to complete the measurement of wind speed and wind direction 30-300m above the lidar.

The four core modules of Molas B300 series from fiber laser lidar transmitter, laser transceiver system, high-speed data acquisition system, and high-precision data processing software,Each core module has a high degree of matching, which ensures the unified coordination of the whole system and data information security, and has reached the international advanced level.

Product Advantages

- 【Non-contact measurement】
  convenient and fast, leading the industry
- 【High accuracy】
  up to 0.1m/s and 1°
- 【Easy maintenance】
  simple and fast maintenance, no safety production risk
- 【Data security】
  no economic and policy risks such as data leakage
- 【Large range】
  30-300m, 12 custom levels
- 【No infrastructure construction】
  no need for land acquisition and infrastructure construction, saving worry and effort
- 【Flexible deployment】
  small and lightweight, adaptable to various terrain environments
- 【All-weather】
  no fear of harsh environments in the wild
- 【Time-saving and efficient】
  easy to operate, quickly put into operation, saving valuable time and cost
- 【Flexible configuration】
  wireless connection flexibly realizes configuration delivery and data transmission

General Parameters

Powered By	24VDC,220VAC
Power	60W
Size	500*500*602mm³ (without handle) 603*500*602mm³ (with handle)
Weight	⩽50kg
Temperature Range	-40°C ~ 50°C
Humidity Range	0% to 100%
Protection Class	IP67
Eye Safety	Class 1M(EN60825-1)

Measurement Parameters

Distance	30~300m
Measurement Layer	12
Sampling Rate	1Hz
Wind Speed Accuracy	0.1m/s
Wind Direction Accuracy	1°
Wind Speed Range	0~75m/s
Wind Direction Range	0~360°
Measurement Principle	Pulsed Laser Coherent Doppler

Data parameter

Data Output	Horizontal wind speed/vertical wind speed/ wind direction/statistics/time stamp/GPS/ temperature, humidity and pressure
Data Format	ASCII
Data Storage	128GB / 10 years @1 Hz
Communication	Ethernet（100BASE-TX）/ 3G / 4G / WIFI

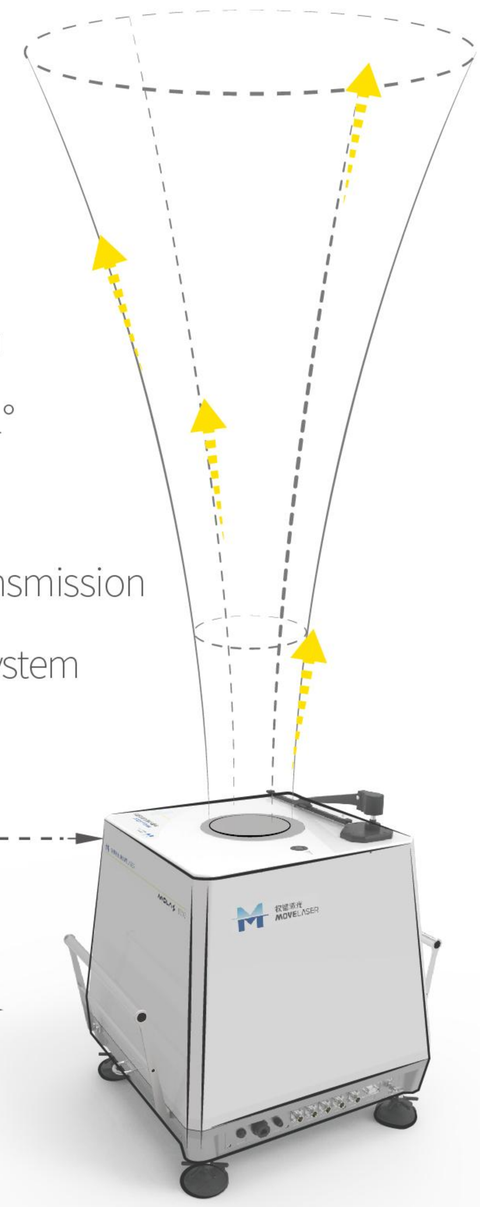
NANJING MOVELASER CO.,LTD.
ADD: Building B2, Hongfeng Science Park, Kechuang Road,Nanjing
301, Building 7, Yard 88, Liuxiang Road, Fengtai District, Beijing
P.C: 210038
TEL: +86-025-86800600
FAX: +86-025-86800073
WEB: www.movelaser.com
E-mail: info@movelaser.com

牧镭激光
MOVELASER

www.movelaser.com

Wind Resource Development Booster
Molas B300

- 30~300m
- 12 custom height layers
- 1Hz sampling rate
- wind speed + wind direction
- Accuracy up to 0.1m/s and 1°
- Surface THP data
- Wireless encrypted data transmission
- GPS positioning anti-theft system



The Molas B300 wind measurement lidar uses the laser Doppler effect and uses the four-beam VAD scanning vector synthesis technology to complete the measurement of wind speed and wind direction at 30-300 meters above the lidar. it can be fully equivalent to a wind tower with a height of 300 meters.

Molas B300 Application field

- Wind resource assessment
- Wind power prediction system
- Weather detection
- Micro site selection and review
- Wind farm / wind farm performance assessment

LIDAR ENABLERS