

# MeteoLaser V4 LiDAR



**Next-Generation Wind LiDAR  
from Ammonit in Partnership  
with Movelaser**

**5 Years Warranty and Service**

IEC 61400-12-1:2017 and  
IEC 61400-50-1:2022 compliant

**Ammonit IT Communication & Data Tools**

AmmonitConnect: Seamless remote access for configuration.

AmmonitOR Data Cloud: Efficient campaign monitoring.

**IEC Classification & Verification**

IEC Classification: Excellent results, based on the Molas B300 V4 technology.

IEC Verification: Good results as expected from a pulsed LiDAR

**Performance & Application**

Bankable Measurements: Provides the precise, finance-grade data essential for wind resource assessment.

Size	Length x width x height	Weight
without packaging	540 x 430 x 580 mm	50 kg
with packaging	870 x 600 x 720 mm	83 kg



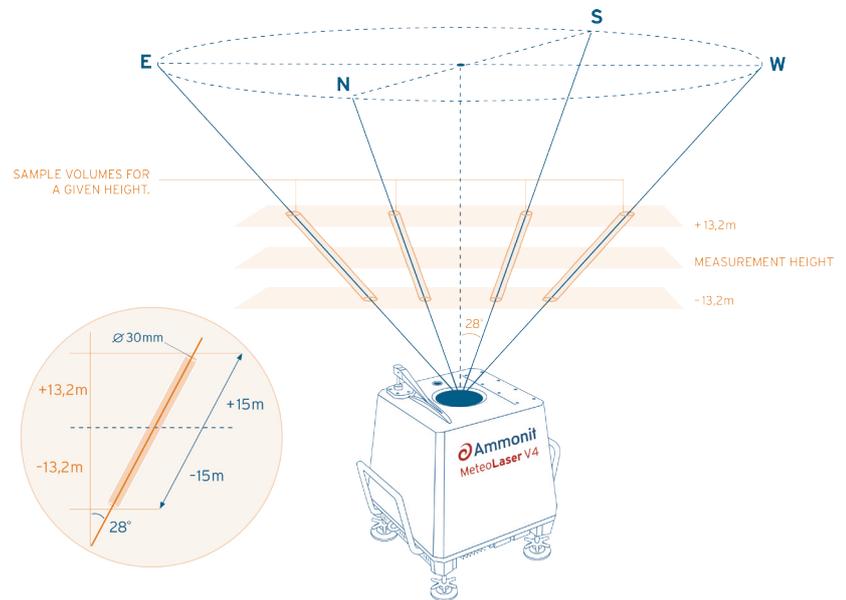
## Measurement for wide range of applications

Precise wind data up to 350 meters is the specialty of the MeteoLaser V4.

This pulsed Doppler LiDAR captures wind speeds and directions, while an integrated PTH sensor module extends its measurements to include pressure, temperature, and humidity.

The MeteoLaser LiDAR is the perfect choice for:

- Wind resource assessment,
- Micro-siting of wind farms,
- Wind turbine power performance,
- Wind park monitoring,
- Mobile and offshore wind measurements.



## MeteoLaser Specs

Type of LiDAR	Pulsed Doppler LiDAR
Number of laser beams	4 laser beams (N, E, S, W)
Angle of laser beam	28° to vertical
Measurement range	20 to 350 m
Measurement heights	12 heights; 24 (customized)
Measurement cycle duration	1 s per beam, 4 s for 4 beams
Accuracy horizontal wind speed	0.1 m/s *
Wind speed range	0 to 75 m/s
Accuracy wind direction	1° *
Power supply requirements	24 +/-5% DC / 100~240 V AC (with adapter)
Power consumption	LiDAR alone: 60 W With cooling or heating: up to 120 W
Operating temperature range	-40° C to 60° C

\*depending on environmental conditions, see classification report



Humidity range	-0 % to 100 % RH (non-sourced)
Protection level	IP 68
Eye Safety standard	Class 1M IEC/EN 60825-1
Hardware interface	4G-Router, Ethernet, Wifi, RS-485
Data format	10 minutes csv files, 45 kb/day compressed 1 second data csv files, 20 MB/day compressed
Size of memory	128 GB available for CSV files (256 GB optional)
User interface for remote access	Web application over AmmonitConnect (SSH reverse Tunnel)
Data transfer protocols	Email and SCADA TCP from LiDAR, FTP, SCP, SFTP and API from AmmonitOR Data Cloud
Data cloud	AmmonitOR Data Cloud
CFD Correction Software	External validated CFD correction software in post-processing and internal real-time CFD correction available as option
SCADA	Modbus TCP through Ethernet output
Factory report against golden LiDAR	Included for free
IEC 61400-12-1:2017 / IEC 61400-50-1:2022 verification	Available for purchase
IEC 61400-12-1:2017 / IEC 61400-50-1:2022 classification	Available

Contact us:  
T +49/30 600 31 88-0  
E sales@ammonit.com

Ammonit Measurement GmbH  
Wrangelstrasse 100 | D-10997 Berlin  
www.ammonit.com

