MeteoLaser LiDAR
S97210

Ammonit's Pulsed Doppler LiDAR
Version 2: compact dimensions, IP67

Ammonit IT communication tools
AmmonitConnect remote access for configuration
AmmonitOR Data Cloud for campaign monitoring

IEC classification
Good results as expected from a pulsed LiDAR

IEC verification
Good results as expected from a pulsed LiDAR

Performs bankable measurement
For wind resource assessment

Super low power consumption
< 35 W without heating or cooling

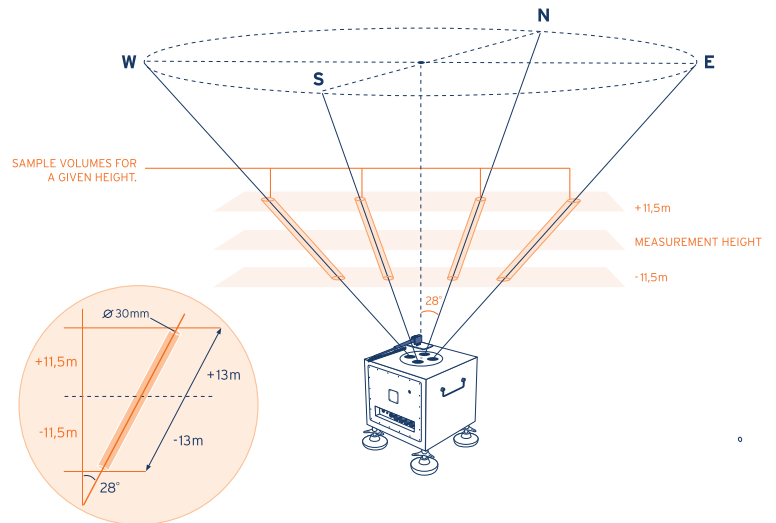| Size	Length x width x height	Weight
without packaging	390 x 390 x 340 mm	32 kg
with packaging	600 x 600 x 600 mm	60 kg

Measurement for wide range of applications

The MeteoLaser pulsed doppler LiDAR accurately measures horizontal and vertical wind speeds and directions up to 300 meters. It measures pressure, temperature and humidity through the PTH sensor module.

The MeteoLaser LiDAR can be used

- in wind resource assessment,
- in micro-siting of wind farms,
- power performance of wind turbine,
- wind park monitoring,
- offshore wind measurement systems and other places where mobile wind measurements are required.

Meteo**Laser Specs**

Type of LiDAR	Pulsed Doppler LiDAR	**Humidity range**	-0 % to 100 % RH (non-sourced)
Number of laser beams	4 laser beams (N, E, S, W)	**Protection level**	IP 67
Angle of laser beam	28° to vertical	**Eye Safety standard**	Class 1M IEC/EN 60825-1
Measurement range	40 to 300 m	**Hardware interface**	4G-Router, Ethernet, Laptop connection, USB for GPS-tracking
Measurement heights	12 heights		
Measurement cycle duration	~0,8 s per beam, ~3,2 s for 4 beams	**Data format (compressed)**	10 minutes files CSV files 1 second data CSV files
Accuracy horizontal wind speed	0.1 m/s *	**Size of memory**	100 GB available for CSV files
Wind speed range	0 to 80 m/s	**User interface for remote access**	Web application over AmmonitConnect (SSH reverse Tunnel)
Accuracy wind direction	1° *		
Power supply requirements	18 to 32 V DC / 93 to 263 V AC (50-60 Hz)	**Data transfer protocols**	Emails, FTP and SCP, SFTP from AmmonitOR
		Data cloud	AmmonitOR Data Cloud
Power consumption	LiDAR alone: 30 W With cooling: 35 W With heating: 50-70 W	**Factory report against golden LiDAR (not IEC conform)**	Included for free
Operating temperature range	-40° C to 60° C	**IEC 61400-12-1 verification**	Available for purchase
		IEC 61400-12-1 classification MeteoLaser LiDAR Version 1	Available

*depending on environmental conditions, see classification report

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