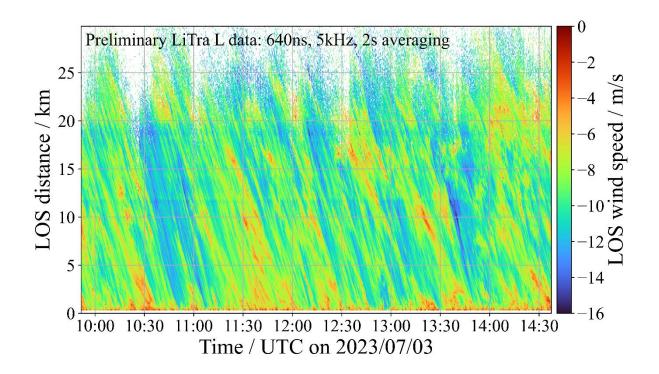
## Abacus Laser LiTra L Module



- Wind lidar transceiver module for long range wind measurements.
- Includes a reference laser, a pulsed fibre amplifier, the transmission and receiving optics and the heterodyne detection.
- Output is an analogue signal from the balanced detector.
- For data acquisition, a separate unit is required (available e.g. from Licel)

**Delivery time:** Presumably available mid-2024. For more information, please enquire directly with us.





## Abacus Laser LiTra L Module

Preliminary lidar performance specifications:

Typical maximum lidar range horizontal <sup>1</sup>	20 – 30 km
Typical lidar range vertical	Detection in and partly above boundary layer
Pulse repetition frequency (PRF)	adjustable 2 – 20 kHz, limited only by P <sub>avg</sub>
Pulse length (FWHM)	standard 160 – 640 ns, more on request

Preliminary laser specifications:

Pulse peak power	>1 kW
Pulse energy for 640 ns pulse	~1 mJ
Max. average power	~4 W
Aperture	~125 mm
Wavelength	~1550 nm

Preliminary environmental specifications:

Typical power consumption	~300 W
Power requirements	24 V DC, 20 A or similar
Cooling	External water chiller
Size	100 x 40 x 40 cm <sup>3</sup>
Weight	~50 kg
Eye safety	Laser class 1M

All specifications are preliminary and subject to changes.

General: It is not permitted to use the Abacus Laser LiTra Modules for military applications.

<sup>&</sup>lt;sup>1</sup> The lidar range depends on weather conditions, pulse length and averaging time.



