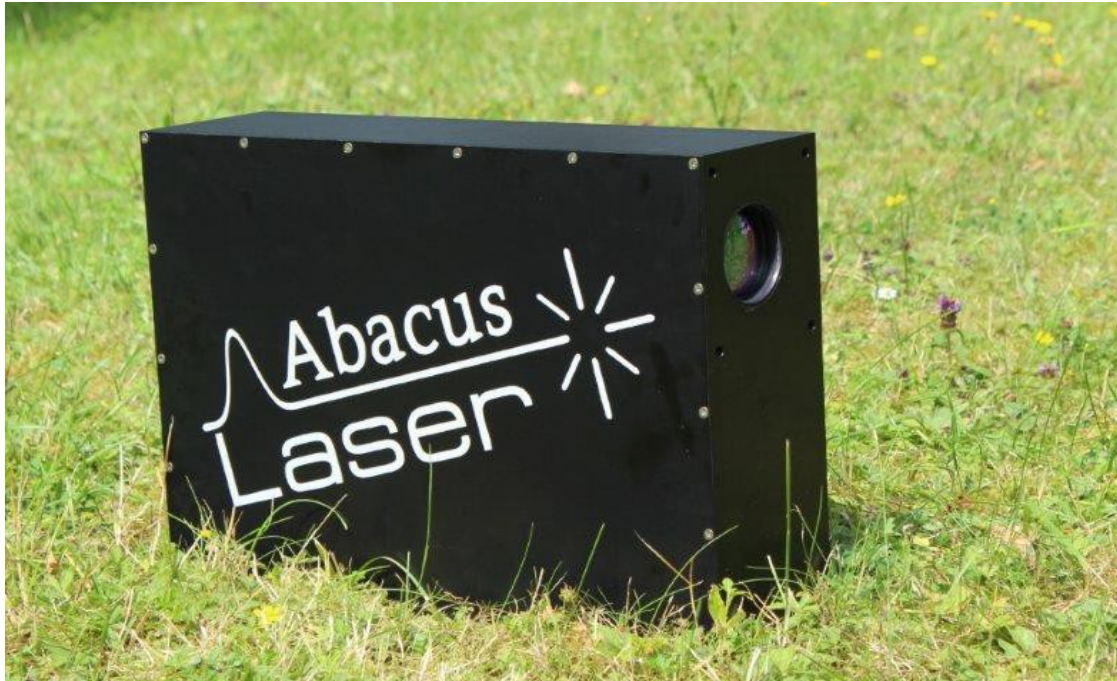


# *Abacus Laser LiTra S Module*



- Wind lidar transceiver module for short to medium range wind measurements
- Includes a reference laser, a pulsed fibre amplifier, the transmission and receiving optics and the heterodyne detection
- Internal control electronics stabilizes the laser
- Output is an analogue signal from the balanced detector
- For data acquisition, a separate unit is required

**Delivery time:** 4 to 8 months after order, depending on the configuration.

**European List Price: 45 000 €**



# Abacus Laser LiTra S Module

## Lidar performance specifications:

Typical lidar range horizontal	2 to 4 km
Typical lidar range vertical	1 to 3 km or within planetary boundary layer
Pulse repetition frequency (PRF)	adjustable 10 – 50 kHz
Pulse length (FWHM)	adjustable 100 – 500 ns

## Laser specifications:

Wavelength	~1550 nm
Pulse peak power	100 W
Energy per pulse	30 $\mu$ J
Average power at 20 kHz	600 mW
Aperture	48 mm

## Power and environmental specifications:

Power requirements	12V DC, 10 A
Typical power consumption	~75 W
Temperature range case	10° to 30° C
Size	395 x 278 x 127 mm <sup>3</sup>
Weight	14 kg
Eye safety	Laser class 1M

*All specifications at 400 ns pulse length, 10 kHz and 0,5 s averaging, unless otherwise stated.*

*Preliminary specifications, please enquire details at time of order.*

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

