

# *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 (available e.g. from Licel)

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

**European List Price starting from: 45 000 €**



# Abacus Laser LiTra S Module

## Lidar performance specifications:

Typical lidar range horizontal (7 to 12 km possible with larger telescope, 650 ns pulses and 5 s averaging)	4 to 6 km
Typical lidar range vertical	within planetary boundary layer, higher if aerosols present
Pulse repetition frequency (PRF)	adjustable 8 – 50 kHz
Pulse length (FWHM)	adjustable 100 – 700 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 (71 mm optional)

## 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 1 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

