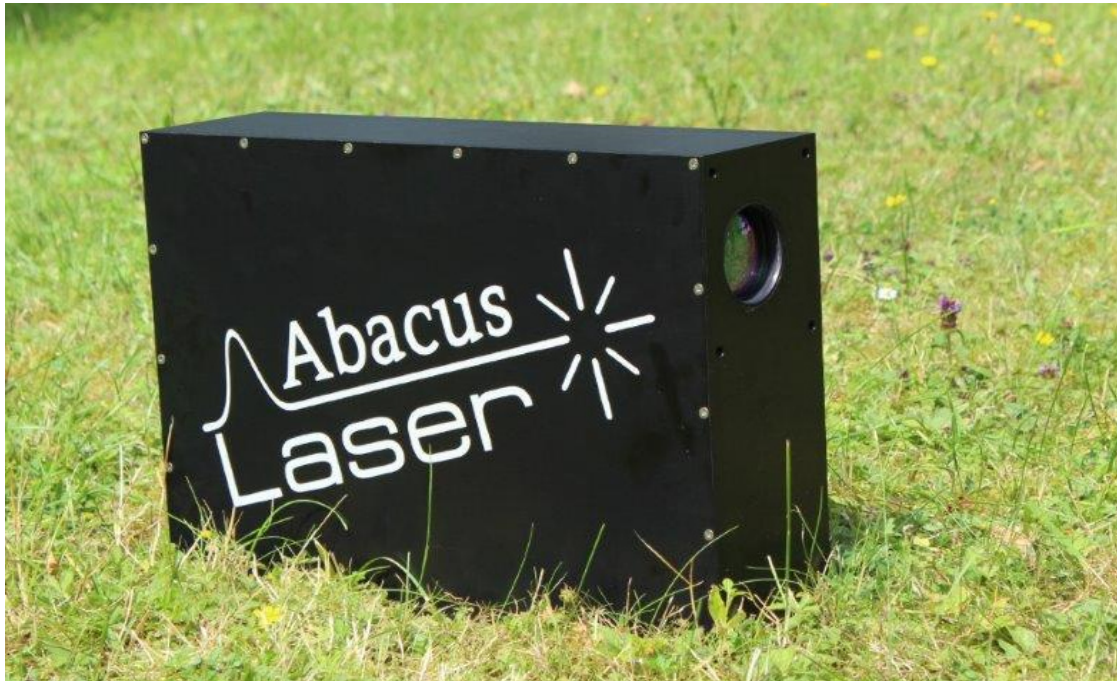


Abacus Laser LiTra S Module



- 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

Product release: December 2018

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 μ 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 270 x 120 mm ³ |
| 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.

