

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 €



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Lidar performance specifications:

Typical lidar range horizontal (7 to 12 km possible with 71 mm 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	~50 W
Energy per pulse	~20 μ J
Average power at 20 kHz	~400 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 ³
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

