



TFL-2000

*prototype design shown

Compact 2 μm band fibre laser

- Efficient 2 μm band output
- High output power of up to 5 W
- Operation wavelength 1950-2000nm (pre-defined)
- Reliable and robust single-mode fibre construction
- Built-in wireless remote control via app

TFL-2000

Compact 2 μm band fibre laser



The TFL-2000 is a compact, turn-key 2 μm band infrared fibre laser.

Based on the highly efficient, thulium fibre technology, the TFL-2000 outputs up to 1, 2 or 5 W of continuous power from a single-mode fibre, delivering reliable infrared light to wherever it is needed.

Polarised or unpolarised outputs are available depending on the user's applications. Standard fibre output with free space output optional.

The TFL-2000 comes with built-in wireless remote control of all laser parameters via an app, giving you the freedom to easily control the laser from anywhere in the lab.

The TFL-2000 is a simple, turn-key solution that can be readily incorporated into any experiment requiring 2 μm band light.

Applications:

- Pumping Ho^{3+} based solid-state and fibre lasers
- Pump source for dual-wavelength-pumped 3.5 μm fibre laser
- spectroscopy applications

Maximum power @ 2 μm band	1, 2 or 5 W (fixed wavelength) ^(a)
Wavelength range	1.95 – 2.00 μm (pre-defined)
Typical linewidth	<1 nm ^(b)
Beam quality	TEM_{00} $M^2 < 1.1$
Power stability	1 % ^(c)
Duty cycle	1-100 %
Polarization	Linear or Unpolarised
Dimensions	310 x 215 x 125 mm ³ ^(d)

Preliminary

(a) Depending on model

(b) Narrower linewidth optional

(c) Standard deviation over 15 minutes - free running

(d) Dimensions are model dependent

*all specifications are preliminary and subject to change