## $M_{\text {俗 }}^{\text {IRAGOTONES }}$



## MFL-3500

## Compact widely tunable mid-IR fibre laser

- Efficient $3.5 \mu \mathrm{~m}$ output via patented dual-wavelength pumping
- High output power of up to 1 W (for fixed wavelength)
- Wide tunability of greater than 450 nm
- Reliable and robust single-mode fibre construction
- Built-in wireless remote control via app


## MFL-3500

## Compact widely tunable mid-IR fibre laser

The MFL-3500 is the first compact, turn-key mid infrared fibre laser.
Based on the highly efficient, patented dual wavelength pumping technology, the MFL- 3500 outputs up to 1 W of continuous power from a single-mode fibre, delivering reliable mid infrared light to wherever it is needed.

An automated grating allows an ultra wide tunability of up to 450 nm around $3.5 \mu \mathrm{~m}$, enabling tuning to a variety of molecular absorption lines such as various greenhouse gases and proteins.

The MFL-3500 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 MFL-3500 is a simple, turn-key solution that can be readily incorporated into any experiment requiring mid-Infrared light.

## Applications:

- Mid-IR spectroscopy
- Greenhouse gas sensing
- Atmospheric laser radar
- Molecular fingerprinting
- Polymer processing

Maximum power @ $3.5 \mu \mathrm{~m}$ band Wavelength range Typical linewidth

Beam quality Power stability Duty cycle

Polarization
Dimensions

1 W (fixed wavelength) ${ }^{\text {(a) }}$
$3.33-3.78 \mu \mathrm{~m}$
$0.3 \mathrm{~nm}^{\text {(b) }}$
TEM $_{00} \mathrm{M}^{2}<1.1$
$0.4 \%$ (c)
1-100 \% Linear (30:1)
Unpolarised (fixed wavelength)
$45 \times 45 \times 53 \mathrm{~cm}^{3}$ (d)
(a) Free running laser at fixed wavelength. Lower for tunable system

