CONTINUOUS WAVE

Water-cooled near-infrared fibre lasers

Near-infrared CW output for spectroscopy, optical instrumentation and system integration.

Applications to discuss: Laser spectroscopy; Quantum-optics experiments.

Selection points
930-2000 nm selected bands / Power limit awaiting clarification / Water-cooled format

Configuration options

Configuration	Wavelength options	Output power
Wavelength-selected system	930 nm, 976 nm, 1030-1100 nm, 1530-1600 nm, 1730-2000 nm	To be confirmed for the selected wavelength

Each row is a separate configuration. Limits from different rows must not be combined.

Technical details

Parameter	Specification or condition
Beam propagation factor	M^2 <1.1
Polarization	99% degree of polarization
Long-term wavelength stability	±0.02 nm
Long-term power drift	±1%
Intensity noise	<2% RMS, integrated over 5 Hz-100 kHz

Integration and delivery

Item	Configuration detail
Format and cooling	Water-cooled 2U, 19-inch rack package
Controls	Graphical interface; detailed electrical interface to confirm
Output delivery	Confirm beam geometry and any fibre delivery

Conditions and configuration notes

• Output power depends on wavelength and configuration. A family maximum is not available at every wavelength.

• Confirm the delivered power after any fibre coupling, isolation or added optics.

• The published output-power notation is inconsistent. No numerical power limit is adopted in this draft; confirm an operating point before selection.

• The wavelength groups are selectable configurations, not one continuously tunable laser. No single-frequency linewidth is assigned to this family.