

CTFL-TERA

CW THULIUM FIBER LASER



2.0 μm

B 203

B 130

B 314

M 401



Large choice of wavelength from 1900 to 2050 nm,
High output power up to 20W,
...

The CTFL-TERA series is a range of 2 μm Continuous Wave thulium fiber laser delivering up to 20W output power with random or linear polarization. The innovative all-in fiber designs offer a very good optical power stability with an excellent beam quality, M2<1.1 or M2<1.3 depending on the output power. Solutions are possible with a fixed operating center wavelength between 1900nm and 2050nm.

The CTFL-TERA lasers are commonly used for applications such as medical surgery, medical treatment, Solid state laser pumping, plastic material processing and for counter-measure in defense.

The CTFL-TERA series is proposed in turn-key easy rack with a user-friendly front panel. Depending on the model, the rack can be remotely controlled with a RS232 communication through Sub-D 9 connector, or with a RS232 communication through a USB connector and Webpages/Telnet/SSH/SNMP2 through a RJ45 connector. OEM modules are also available with a microcontroller for internal controls, alarms, and RS232 communications making the laser compatible with all systems.

Key features

- Large choice of wavelength from 1900 to 2050 nm
- High output power up to 20W
- Linear polarization available
- Compact module
- Plug & play benchtop
- High beam quality

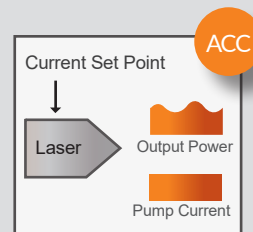
What applications

- Medical surgery
- Medical treatment
- Solid state laser pumping
- Plastics material processing
- Counter-measure in Defense

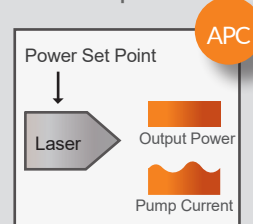


Modes of operation

The devices offer several modes of operation :



ACC (Automatic Current Control) mode is standard for all devices. The laser is controlled from diodes current set point.



APC (Automatic Power Control) mode allows controlling the laser at a fixed output power set point. The device maintains a constant optical output power monitored with a photodiode. The current is adjusted automatically.

<i>Optical Specifications</i> @ 25 °C	CTFL-TERA
Mode of operation	CW or modulated
Output power	Up to 20W
Operating wavelength *	From 1900 to 2050nm
Beam Quality	< 1.1 or < 1.3
Output Fiber length	1 m
Output termination	FC/APC or collimator

The CTFL lasers are available as turn-key benchtop or as OEM module

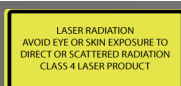
RELIABILITY

The Lumibird range of fiber lasers are manufactured with tested components and are submitted to several inspections during the manufacturing process under a rigorous quality management certified in accordance with the ISO 9001:2015 standard. Our all-in-fiber systems offer maintenance-free operation. Countless units are continuously running in demanding environments with no failure.

GUARANTEE

Our fiber systems are under 1 full year parts and labor warranty. We offer a warranty extension of 1 or 2 years. Please contact us.

For ordering information and custom solutions, please contact us : websales@keopsys.com



Lumibird undertakes a continuous and intensive product development program to ensure that its products perform to then highest technical standards. As a result, the specifications in this document are subject to change without notice.

Lumibird has locations across the globe that are available to provide support for any product, service or inquiry. Visit www.lumibird.com to connect with any of our global sites.

