

# CTFL-TERA

## CW THULIUM FIBER LASER



2.0  $\mu\text{m}$

B 203

B 130

B 314

M 401



Large choice of wavelength from 1900 to 2050 nm,  
High output power up to 30W,  
...

The CTFL-TERA series is a range of 2 $\mu\text{m}$  Continuous Wave thulium fiber laser delivering up to 30W 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,  $M^2 < 1.1$  or  $M^2 < 1.3$  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 30W
- Linear polarization available
- Compact module
- Plug & play benchtop
- High beam quality

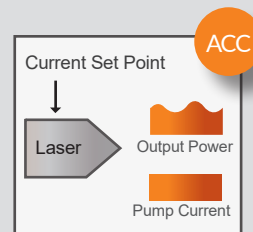
### What applications

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

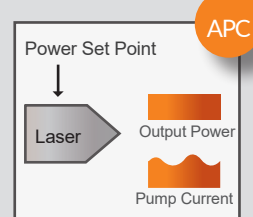


### Modes of operation

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 30 W
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

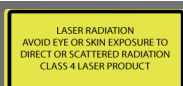
### RELIABILITY

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](mailto: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](http://www.lumibird.com) to connect with any of our global sites.

