

# CTFL-TERA-LP

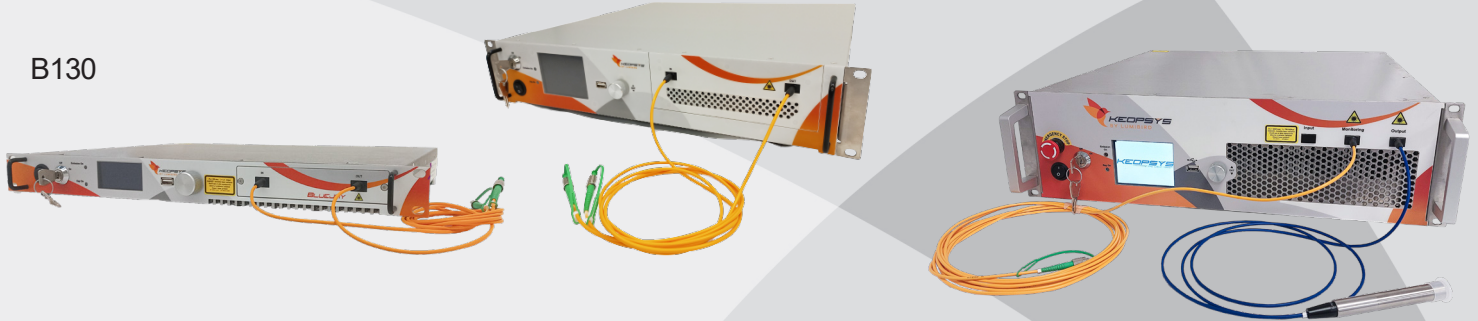
CW Thulium Fiber Laser with terahertz linewidth Low Power



B230

B330

B130



## MAIN FEATURES

- 1940 or 1995 nm standard operating wavelengths
- Output power up to 20 W
- Linewidth < 1 nm
- Amplitude modulation (optional)
- Random or linear polarization
- Maintenance free

## MAIN APPLICATIONS

- **MEDICAL SURGERY**
- **MEDICAL TREATMENT**
- **SOLID STATE LASER PUMPING**
- **PLASTICS MATERIAL PROCESSING**
- **COUNTER-MEASURE IN DEFENSE**

“

CTFL-TERA-LP is a continuous Thulium fiber laser delivering up to 20 W in random or linear polarization with a sub-nm linewidth. The output power can be modulated with an external TTL signal up to 5 kHz.

Standard wavelengths are 1940 and 1995 nm but other wavelengths are available on special request.

This laser is a perfect tool for a wide range of applications as medical treatment and laser pumping or for counter-measure in defense. The all-in-fiber design gives a good beam quality.

CTFL-TERA-LP is available in a turn-key benchtop which can be monitored from the front panel or remotely via serial USB and Ethernet ports. Additionally, no installation is required: just plug it and run it.

”

V2-0- Lumibird reserves the right to modify the specifications without prior notice. Photos are not contractual.

[www.keopsys.com](http://www.keopsys.com)

Many options and configurations are available. Please contact Lumibird to find the best match for your needs and compatibility between options.

# CTFL-TERA-LP

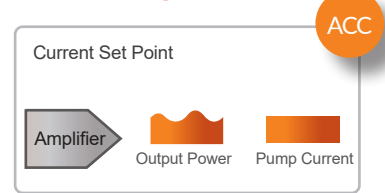
CW Thulium Fiber Laser with terahertz linewidth Low Power



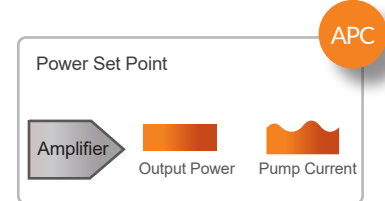
## SPECIFICATIONS

	CTFL-TERA-LP
Mode of operation	CW or modulated
Output power (W)	From 1 to 20
Operating wavelength (nm)	1940 (+/- 1) or 1995 (+/- 1)
Linewidth (nm)	< 1
Polarization	Random or linear (PER > 17 dB)
Amplitude modulation (AM option)	Up to 5 kHz
Output power monitoring	Optional, depending on the model
Control mode	ACC, APC if available
Output power stability over 1 hour (% rms)	< 2 up to 10 W, < 3 for 20 W
Fiber type	SMF or PANDA 1550
Output termination	FC/APC or collimator
Beam quality, M <sup>2</sup>	< 1.1 up to 10 W, < 1.3 for 20 W

## Mode of operation

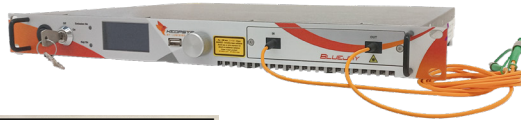


ACC (Automatic Current Control)



APC (Automatic Power Control)

## EASY TO USE !



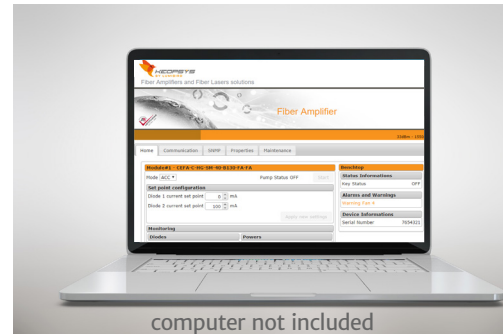
```

APC/Pump ON : 50.00
Set Point : 20.00dBm
Laser Diode : 828mA
Power Out : 20.00dBm

Status OK Options
    
```

### Front panel control

- User-friendly and turnkey benchtop
- Dial and front panel display for easy control and monitoring of the product



computer not included

### Remote control

- USB port
- Web server, Telnet, SSH protocols
- GUI available (option)

## Reliability



All our fiber lasers and fiber amplifiers are manufactured according to our ISO certified quality management system, which places the needs and values of customers and partners at the heart of our organization. Throughout the manufacturing process, our components and systems are subjected to rigorous tests and inspections, which guarantees their robustness and reliability in the most demanding environments. Countless units operate continuously without maintenance around the world. The ISO 9001 certificates can be downloaded from our website.



LASER RADIATION  
AVOID EYE OR SKIN EXPOSURE TO  
DIRECT OR SCATTERED RADIATION  
CLASS 4 LASER PRODUCT

[www.keopsys.com](http://www.keopsys.com)

Many options and configurations are available. Please contact Lumibird to find the best match for your needs and compatibility between options.



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.