

CEFL-KILO

CW Erbium Fiber Laser with kilohertz linewidth



M501



B340



B240



MAIN FEATURES

- Narrow linewidth
- Single longitudinal mode
- Operating wavelength from 1545 to 1565 nm
- Output power up to 20 W
- Low RIN
- OSNR > 55 dB
- Wavelength tunability (optional)
- Laser frequency modulation (optional)
- Single mode fiber
- Random or linear polarization
- Maintenance free

MAIN APPLICATIONS

- **LiDAR**
- **ACOUSTIC OR SEISMIC SENSING**
- **ATOM COOLING**
- **ATOMIC SPECTROSCOPY**
- **OPTICAL TWEEZING**

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CEFL-KILO are low RIN continuous lasers with ultra narrow linewidth seeder (down to 1 kHz) and deliver up to 20 W in the 1.5 μm range.

They are specially designed for high-precision applications such as LiDAR or sensing. They can be thermally tuned and their emission line modulated for locking purposes required in atomic spectroscopy and atom cooling.

CEFL-KILO are available in OEM module for integration or user-friendly benchtop. The benchtop platforms offer the possibility to control the laser via the front panel or remotely via serial USB and Ethernet ports.

Both models offer robustness and reliability.

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

CEFL-KILO

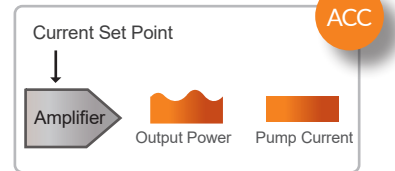
CW Erbium Fiber Laser with kilohertz linewidth



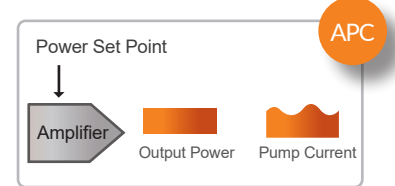
SPECIFICATIONS

	CEFL-KILO
Mode of operation	CW
Output power (W)	From 1 to 20
Operating wavelength (nm)	1550 +/- 2
Wavelength stability over 1 hour, +/- 1 °C (pm)	+/- 0.5 (for all grades)
Linewidth (kHz)	1,5 or 15 (depending on the model)
Wavelength thermal tuning range, WT option (pm)	30
Laser frequency modulation range, FM option	100 to 200 MHz at 10 kHz
Laser frequency modulation bandwidth	DC to 100 kHz (input analog voltage -4 to +4 V)
Polarization	Random or linear
Seed tap (ST option)	1 m long fiber for benchtop and FC/APC adapters for module
Fiber type	Single mode fiber SMF or PANDA
Output termination	FC/APC or collimator (depending on the model)
Beam quality, M ²	< 1.1

Mode of operation



ACC (Automatic Current Control)



APC (Automatic Power Control)

EASY TO CONTROL!



Benchtop

Control box for modules



Control of device

- User-friendly benchtop with dial and front panel display for easy control and monitoring of the product
- Modules with optional control box and cables for easy evaluation



computer not included

Remote control

- USB port for benchtops
- Command set provided
- GUI available for modules and as an option for benchtops

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.



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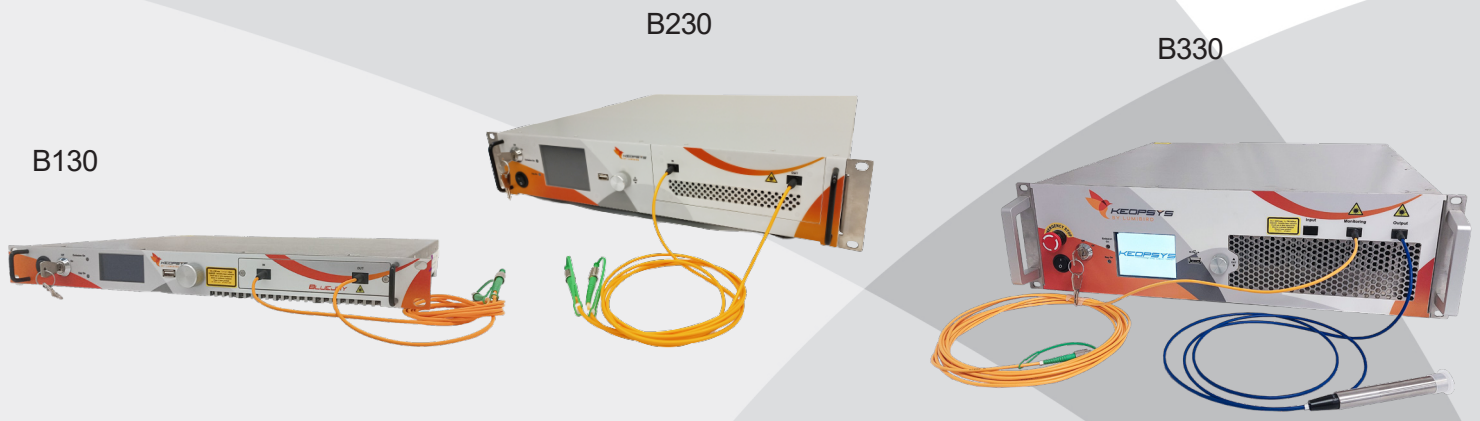
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CEFL-TERA-LP

CW Erbium Fiber Laser with terahertz linewidth low power



MAIN FEATURES

- 1550 or 1565 nm standard operating wavelengths
- Output power up to 20 W
- Linewidth less than 1 nm
- Diffraction limited output
- Amplitude modulation (optional)
- Random or linear polarization
- Maintenance free

MAIN APPLICATIONS

- OPTICAL COMPONENT TESTING
- LASER TRAPPING SPECTROSCOPY
- MEDICAL (DERMATOLOGY)
- HEATING
- OPO AND THULIUM FIBER PUMPING

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CEFL-TERA-LP is a continuous Erbium fiber laser delivering up to 20 W in random or linear polarization with a nm linewidth.

The output power can be modulated with an external TTL signal up to 5 kHz.

This laser is a perfect tool for wide range of applications as optical components testing, spectroscopy, OPO pumping or thulium laser pumping.

CEFL-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.

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CEFL-TERA-LP

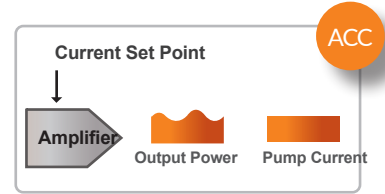
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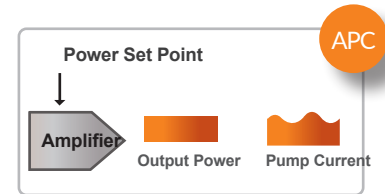
SPECIFICATIONS

	CEFL-TERA-LP
Mode of operation	CW or modulated
Output power (W)	From 1 to 20
Operating wavelength (nm)	1550 +/- 1 or 1565 +/- 1
Linewidth (nm)	< 1
Polarization	Random or linear (PER > 17 dB)
Amplitude modulation (AM option)	Up to 5 kHz
Red laser guide (RG option)	Available depending on models
Output power stability over 1 hour (% rms)	< 2
Fiber type	SMF or PANDA
Output termination	FC/APC or Collimator
Beam quality, M ²	< 1.1

Mode of operation



ACC (Automatic Current Control)



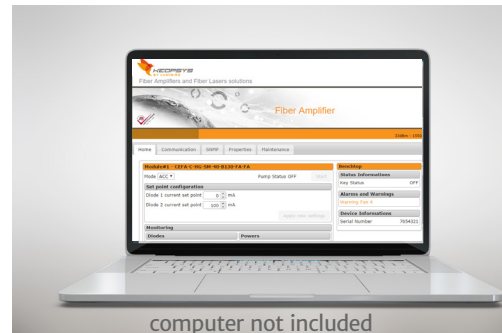
APC (Automatic Power Control)

EASY TO USE !



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 and command set provided
- 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.



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