

CYFL-TERA SERIES

CW YTTERBIUM FIBER LASER , TERAHERTZ LINEWIDTH



KEY FEATURES

- 1060 to 1090 nm operating wavelength
- Output power up to 20 W
- Linewidth of a few nm
- Diffraction limited output
- Random or linear polarization
- High wall-plug efficiency
- Maintenance free

Description

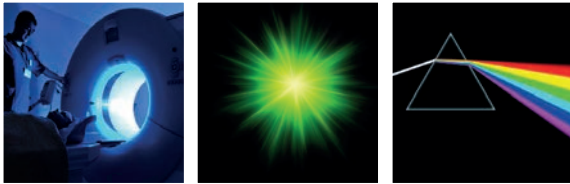
CYFL-TERA series are Ytterbium fiber doped lasers providing an output power up to 20 W. The Keopsys optical architecture permits to deliver a linewidth of few nanometers.

The lasers are available in random or linear polarization and deliver a perfect diffraction limited beam. The output power can also be modulated with an external TTL signal up to 10 kHz.

With a wall plug efficiency over 20 %, these lasers are amongst the most efficient ones.

The entirely fiber Keopsys design offers robustness, reliability and no maintenance for these lasers coming in a friendly turn key benchtop.

APPLICATIONS



- Optical component testing
- Laser trapping spectroscopy
- Atomic laser interferometry
- Optical tweezing

3 Platforms

B 201 / B 203

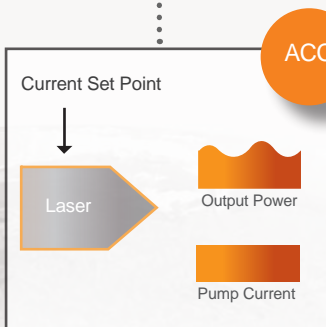


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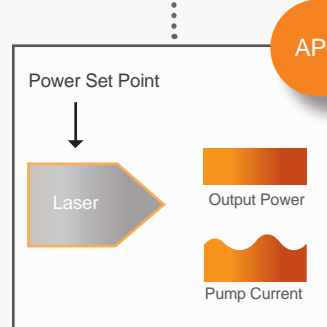


Modes of operation

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 to control 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.

CYFL-TERA SERIES

CONTINUOUS WAVE YTTERBIUM FIBER LASER, TERAHERTZ LINEWIDTH

Optical Specifications

@ 25 °C

	CYFL-TERA
Mode of operation	CW or modulation
Output power	From 1 to 20 W
Standard operating wavelength	1075 +/-15 nm
Linewidth (FWHM)	< 2 nm
Output power stability over 1 hour	< 2 % rms
Polarization	Random or Linear
Amplitude modulation	Option (up to 20 kHz)
Red laser guide	Option
Output power monitor	Option (APC : Internal photodiode and automatic power control mode)
Beam quality, M ²	< 1.1
Output termination	FC/APC or Collimator

The CYFL-TERA series lasers are available as benchtop for a press button use.

RELIABILITY

The Keopsys 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 9001:2008 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 guarantee. 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



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



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