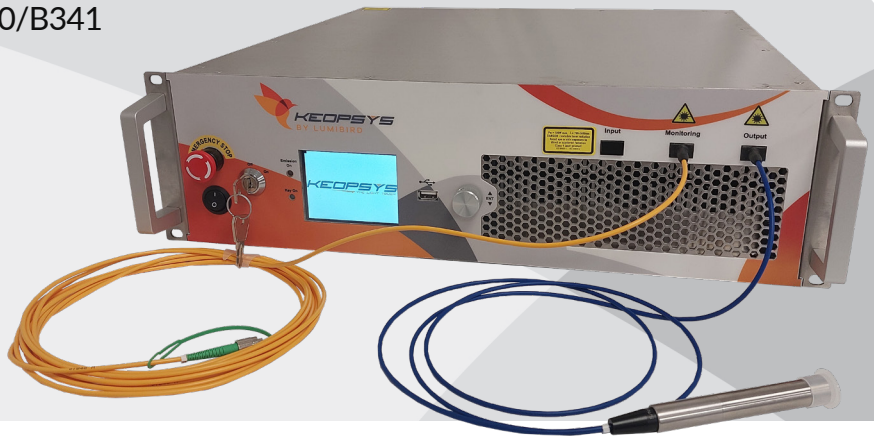
CVFL-MEGA

CW Visible Fiber Laser with megahertz linewidth

B340/B341



MAIN FEATURES

- Available as standard at 532 and 780 nm
- Up to 3 W out of single mode fiber
- Low phase noise and RIN
- Excellent SMSR
- Wavelength tunability option
- Laser frequency modulation option
- Diffraction limited output ($M^2 < 1.1$)
- Linear polarization
- Turn-key operation

MAIN APPLICATIONS

- **QUANTUM OPTICS SUCH AS BOSE-EINSTEIN CONDENSATE**
- **OPTICAL TWEEZING**
- **ATOMIC LASER INTERFEROMETRY**
- **RAMAN SPECTROSCOPY**
- **METROLOGY**

CVFL-MEGA series are single mode lasers in a turn-key, ease-of-use platform.

CVFL-MEGA use MHz seeder which is amplified through several fiber amplifier stages. The output is then converted to a visible wavelength to address several applications such as optical tweezing, interferometry or Raman spectroscopy.

The lasers can be thermally and current tuned in order to lock their wavelength on an absorption line. These lasers are renowned for their robustness, reliability and maintenance free operation.

The laser might be controlled via the front panel display or remotely via serial USB and Ethernet ports.

www.keopsys.com

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

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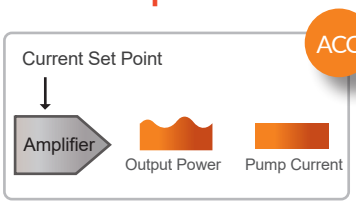
KEOPSYS BY LUMIBIRD

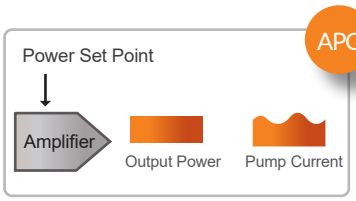
SPECIFICATIONS

	CVFL-MEGA
Mode of operation	CW
Output power (W)	up to 3
Operating wavelength (nm)	532 / 780
Wavelength stability over 1 hour, +/- 1 °C (MHz)	+/- 200 or +/- 300 (depending on wavelength)
Linewidth (MHz)	< 10
Wavelength thermal tuning range, WT option (GHz)	100 (depending on wavelength)
Laser frequency modulation range, FM option (GHz)	10 (depending on wavelength)
Polarization	Linear, PER > 20 dB (free-space output) or PER > 17 dB (fibered output)
Seed tap (option)	Seeder monitoring, output monitoring or mid-stage access depending on model
Control mode	ACC, APC
Output termination	FC/APC or free-space depending on model
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 benchtop with 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

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.

ISO 9001:2015

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

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LUMIBIRD MORE THAN LASERS

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.

CE RoHS REACH