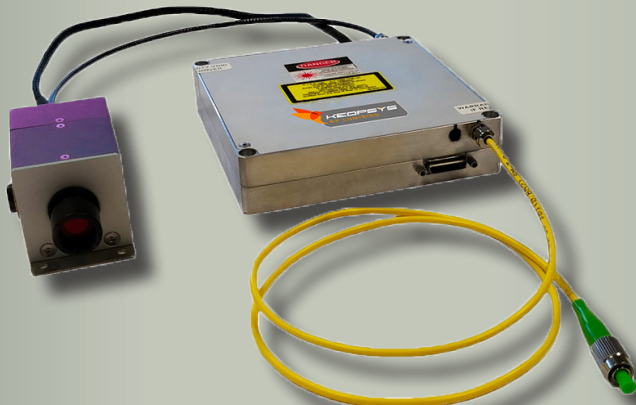


PUFL

UV ULTRA-COMPACT LASER TRANSMITTER



355 nm



PU 01 A/D

Energy per pulse up to 2 μ J,
Peak power up to 2 kW,
...

The PUFL series is a range of 355nm pulsed fiber lasers, delivering high peak power and high energy per pulse in compact modules with diffraction-limited output beam for range finding applications. UV Lasers are commonly used for aerosol detection, fluorescence excitation, Raman spectroscopy, Biological experimentation and for wafer inspection. The optical design consists in a 1064nm fiber laser connected to a high-efficiency 355nm converter. Compared to other technologies, the innovative optical architecture offers a better electrical-trigger to optical-pulse delay jitter and an excellent pulse duration stability allowing to enhance the performance of user system.

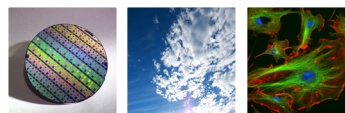
The laser modules incorporate a microcontroller for internal controls, alarms, and RS232/USB communication making the laser compatible with all systems. Pulses are triggered by an external signal supplied by the user system.

Key features

- Energy per pulse up to 2 μ J
- Peak power up to 2 kW
- Average power up to 100 mW
- Pulse repetition frequency 50 kHz
- Collimated beam with M2<1.5
- Low power consumption
- Compact and rugged package

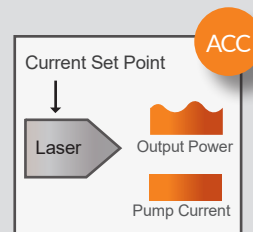
What applications

- Aerosol detection
- Fluorescence excitation
- Raman spectroscopy
- Biological experimentation
- Wafer inspection



Modes of operation

The devices offer one mode of operation :



ACC (Automatic Current Control) mode is standard for all devices. The laser is controlled from diodes current set point.

Optical Specifications @ 25 °C

PUFL	
Mode of operation	Pulsed
Operating wavelength	355 nm
Energy per pulse	Up to 2 μ J
Peak power	Up to 2 kW
Average power	Up to 100 mW
Pulse repetition frequency	50 kHz
Pulse duration (FWHM)	1 ns
Polarization	Linear (PER>17 dB)
Beam Quality, M ²	< 1.3

The PUFL is available as OEM module

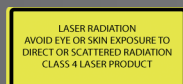
RELIABILITY

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



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 to connect with any of our global sites.

