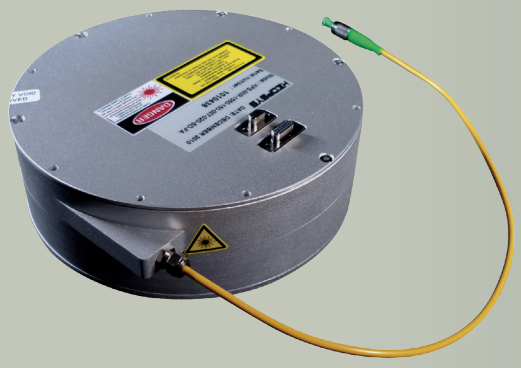
PEFL-MIRVISION

PULSED ERBIUM FIBER LASER

1.5 µm EYE-SAFE HIGH POWER LASER TRANSMITTER

KEOPSYS BY LUMIBIRD

1.5 µm



PM 2D / PM 3D

1.5 µm eye-safe operation,
Energy per pulse up to 350 µJ,
...

The PEFL-MIRVISION series is a range of 1.5µm pulsed fiber laser transmitters, delivering high peak power and high energy per pulse in compact modules for long-range applications.

A varied choice of models offers the possibility to operate over a wide range of operating setpoints (pulse duration, pulse repetition frequency and energy) allowing to be suitable for a various of high-accuracy systems. Compact pulsed laser transmitters are commonly used in applications such as Airborne 3D scanning and mapping, telemetry, obstacle detection and supercontinuum generation.

The all-in-fiber design requires no maintenance. The PEFL-MIRVISION has been tested under vibrations and shocks conditions in accordance with military standards (MIL-STD-810G, RTCA-DO-160G...) allowing operations in the harshest environmental conditions over a long period of time.

Lumibird electronic board designs offer a wide range of functionalities. Platforms incorporate a microcontroller for internal controls, alarms, and RS232/USB communication making the laser compatible all systems. Pulses are triggered by an external signal supplied by the user system.

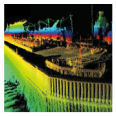
Key features

- 1.5 µm eye-safe operation
- Energy per pulse up to 350 µJ
- Peak power up to 25 kW
- Choice of pulse duration from 0.5 ns to 200 ns
- Pulse repetition frequency from 15 kHz to 2 MHz
- Linear or random polarization
- High output-beam quality (from 1 to 2.5)
- Low power consumption
- Wide operating temperature range (-35 °C to +65 °C)
- Rugged and compact package

What applications

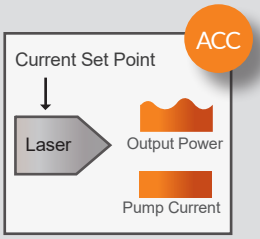
- Telemetry, range-finding
- Obstacle detection
- Airborne survey, mapping
- 3D scanning
- Supercontinuum generation





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.

Non contractual photos

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Optical Specifications @ 25 °C	PEFL-MIRVISION
Mode of operation	Pulsed
Operating wavelength	1545+/-1 nm [1]
Wavelength excursion over T °C range	<0.3 nm
Energy per pulse	Up to 350 µJ
Peak power	Up to 25 kW
Average power	From 3 to 10 W
Pulse repetition frequency	From 15 kHz to 2 MHz
Pulse duration (FWHM)	From 0.5 to 200 ns
Random or Linear (15 dB) polarization	RP or LP
Output termination	FC/APC or Collimator
Seed tap (option)	1 m pigtail length, > 0.1mW peak power, SMF, FC/PC

1 : Other wavelength on request

The PEFL-MIRVISION lasers are available as OEM module for an easily integration

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

RoHS REACH COMPLIANT

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

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.

LUMIBIRD MORE THAN LASERS