

PEFL-MIRVISION SERIES

PULSED ERBIUM FIBER LASER

1.5 μm EYE-SAFE HIGH POWER LASER TRANSMITTER



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 10 kHz to 1 MHz
- Linear or random polarization
- High output-beam quality (from 1.5 to 2.5)
- Low power consumption
- Wide operating temperature range (-35 $^{\circ}\text{C}$ to +65 $^{\circ}\text{C}$)
- Rugged and compact package

Description

MIRVISION series Erbium-doped fiber lasers are eye-safe pulsed laser sources. These lasers benefit from Keopsys design, can deliver pulses from 0.5 to 200 ns over a wide range of repetition rates (10 kHz to 1 MHz).

Energy per pulse up to 350 μJ and high peak power up to 25 kW, are available with excellent beam quality near gaussian mode ($1.5 < M^2 < 2.5$).

The module incorporates a microcontroller for internal controls, alarms and RS232/USB communication. External TTL signal triggers the optical pulses.

The compact, light weight and rugged package makes it ideal for airborne and harsh environmental applications.

APPLICATIONS



- Telemetry, range-finding
- Obstacle detection
- Airborne survey, mapping
- 3D scanning
- Wind sensing

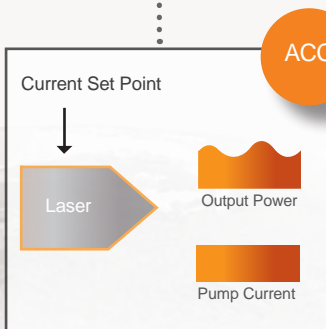
2 Platforms



PM 2D / PM 3D

Mode of operation

The devices offer one mode of operation :



ACC

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

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Optical Specifications @ 25 °C

	PEFL-MIRVISION
Mode of operation	Pulsed
Operating wavelength	1545+/-1 nm*
Wavelength excursion over T °C range	<0.3 nm
Energy per pulse	From 20 to 350 µJ
Peak power	From 5 to 25 kW
Average power	From 3 to 10 W
Pulse repetition frequency	From 20 to 250 kHz
Pulse duration (FWHM)	From 4 to 20 ns
Random or Linear (15 dB) polarization	RP or LP
Output termination	FC/APC or Collimator
Seed tap (option)	1 m pigtail length, SMF, FC/PC

* Other wavelength on request

The PELF-MIRVISION series lasers are available as OEM module for an easily integration.

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 then highest technical standards. As a result, the specifications in this document are subject to change without notice.



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