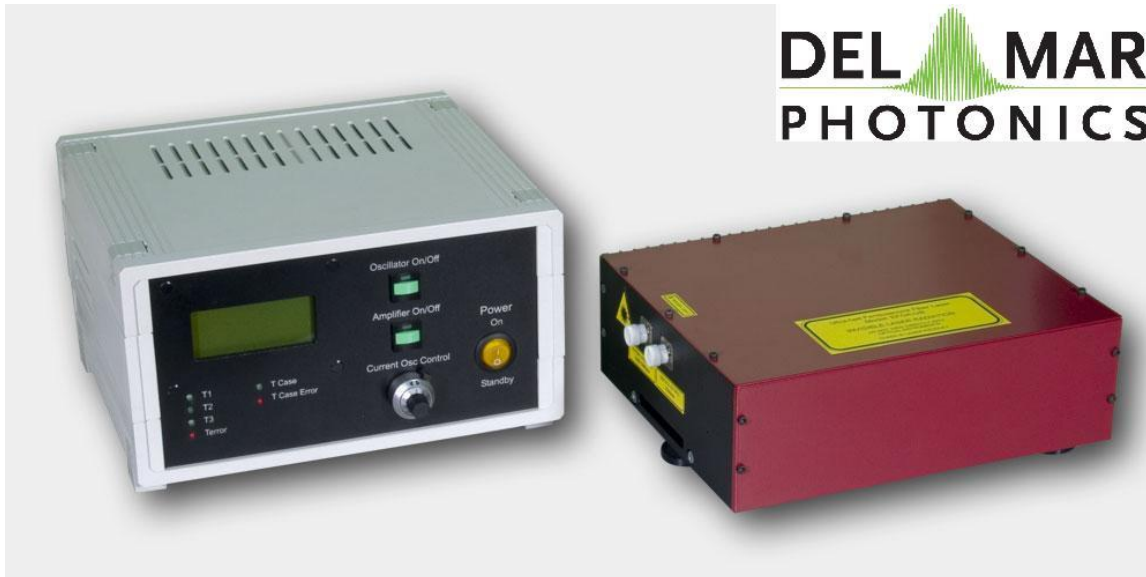


Femtosecond fiber laser Model Pearl-70P300

Femtosecond pulsed lasers are used in many fields of physics, biology, medicine and many other natural sciences and applications: material processing, multiphoton microscopy, «pump-probe» spectroscopy, parametric generation and optical frequency metrology. Femtosecond fiber lasers offer stable and steady operation without constant realignment.

The Pearl-70P300 laser comprises: a passively mode-locked fiber laser, providing pulses with repetition rate 60 MHz and having duration of 250-5000 fs, an amplifier based on Er3+ doped fiber waveguide with pumping by two laser diodes, a prism compressor for amplified pulse compression.



Specification

Optical:

Central wavelength, nm	1560
Average output power, mW	70
Pulse duration, fs	300
Repetition rate, MHz	60
Repetition rate stability, ppm	1
Spectrum width, nm	8
Output power stability (24h), 1560nm	<1%

Outputs:

Optical output polarization	free- space, 1560 nm linear, horizontal
Service optical output	FC/APC (<1 mW, 1560 nm)
HF sync output	SMA connector

Pulsed mode indication	LED
Mode-locked status indication	SMA connector

General data:

Power supply voltage	110-230 V
Power supply frequency	50..60 Hz
Operating temperature	22±5°C
Storage temperature	0...+40°C
Warm-up time	up to 60 min
Dimensions Laser head Power supply unit	180x210x70 mm 230x200x130 mm

All specs have been obtained at t=22±5°C and humidity 45±15%.

Package contents:

Laser head	1 pc.
Laser power supply unit	1 pc.
Power cord	1 pc.
Connection cable	1 pc.
HF cable SMA-BNC	1 pc.
Clamps	3 pc.



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