

Preludio

by *fibercryst*

Preludio

Your solution for high-precision industrial applications



PRELUDIO laser is an innovative 50 W ultrafast laser, operating from 1 MHz up to 5 MHz (pulse duration \leq 350 fs), dedicated to all your industrial applications.

The newborn of Fibercryst's products delivers outstanding performances on high precision processing like transparent material machining.



Specifications

| | Preludio |
|-----------------------------------|---------------------------|
| Performances | |
| Average Power ^(a) | 50 W |
| Repetition Rate | from single shot to 5 MHz |
| Pulse Energy ^(b) | Up to 40 μ J |
| Power Stability ^(c) | < 0.5 % RMS |
| Pointing Stability ^(d) | < 10 μ rad |
| Center wavelength | 1030 nm \pm 2 |
| PER | > 20 dB |
| Polarization direction | vertical |
| Pulse duration | < 350 fs |
| Beam diameter ^(e) | 2.5 mm |
| Beam divergence | < 1 mrad |
| Beam Ellipticity | \geq 0.90 |
| Beam Quality (X/Y) | $M^2 \leq 1.2$ |
| Warm-up time | < 30 min |

(a) @2 MHz - (b) @1 MHz - (c) Over 1 h - (d) @20°C - (e) Other diameters upon request

Characteristics

| | |
|-----------------------|-----------------------|
| Footprint (L x l x h) | 53.1 x 51.5 x 17.1 cm |
| Weight | 44 kg |
| Cooling | Water-cooled |

Features

- Upon request

Programmable Burst

UV Conversion module

Highlights

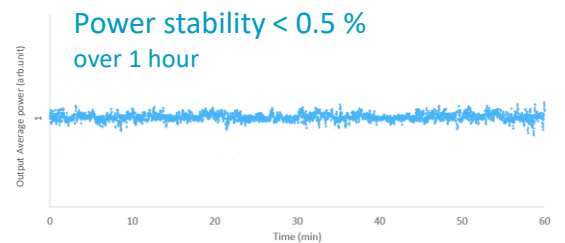
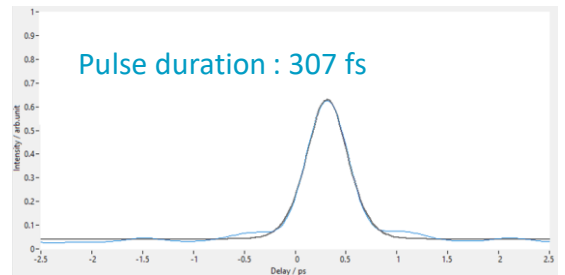
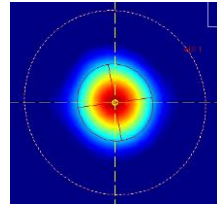
PSO

Position Synch. Output

All-in-One Box

Fully integrated laser head with electronics

Direct output beam profile



Section intended for official distributors and partners

