

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 ≤ 350 fs), dedicated to all your industrial applications.

Industrial & Scientific Applications

- Precision micromachining
- Electronics & semiconductors
- Medical devices
- Surface texturing
- Glass & transparent materials
- Scientific research & advanced photonics

Ultrashort pulses. Maximum precision. Minimal thermal impact.

Specifications

Performances	Preludio
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	≥ 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

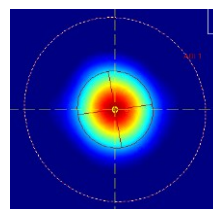
PSO

Position Synch. Output

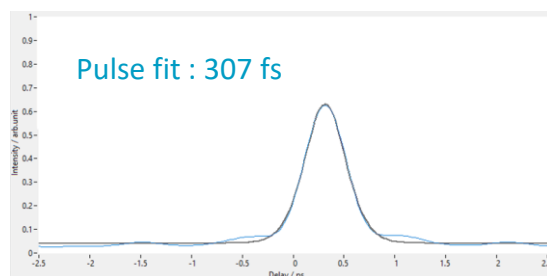
All-in-One Box

Fully integrated laser head with electronics

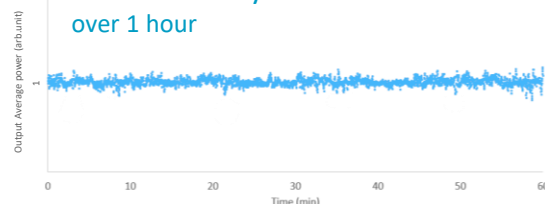
Direct output beam profile



Pulse fit : 307 fs



Power stability < 0.5 % over 1 hour



Section intended for official distributors and partners



Subject to change without notice. Please check for the latest version on our website

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