Preludio-Ultra

by fibercryst

Preludio-Ultra

Your solution for high-precision industrial applications



PRELUDIO-Ultra combines a compact footprint with powerful 35 W ultrafast performance, operating at 1 MHz* and delivering record-short pulses of ≤ 100 fs for next-generation industrial applications

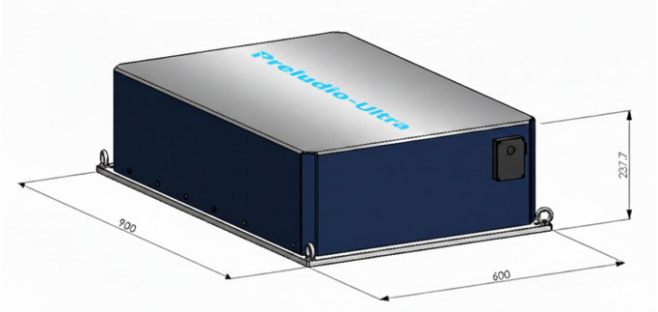
Industrial & Scientific Applications

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

Ultrashort pulses. Maximum precision. Minimal thermal impact.

*up to 5 MHz available upon request

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Preludio-Ultra

Specifications

	Preludio-Ultra
Performances	
Average Power	35 W
Repetition Rate[(a)]	From single shot to 1 MHz
Pulse Energy	Up to 35 µJ
Central wavelength	1030 nm ± 2
Spectral range	60 nm @ -20dB
Polarization direction	vertical
Pulse duration[(b)]	< 80 fs
Beam diameter	Tunable, from 1 to 5 mm
Beam Ellipticity	≥ 0.85
Beam Quality (X/Y)	$M^2 \leq 1.3$
Warm-up time	< 30 min

(a) up to @ 5 MHz upon request - (b) Down to 40 fs upon request

Characteristics	
Footprint (L x l x h)	90 x 60 x 23.8 cm
Weight	104 kg
Cooling	Water-cooled

Features

Prechirp for transport dispersion

Highlights

PSO

Position Synch. Output

All-in-One Box

Fully integrated laser head with electronics





Section intended for official distributors and partners

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