

Cold-ablation high-energy mid-infrared laser

- Matched to vibrational stretch of water
- Pulse duration optimized for tissue modification with minimal collateral damage
- High pulse energy and peak power
- Compact all-in-one device
- Visible pilot laser included
- Turn-key 24/7 operation
- Easy to integrate



Specifications

Optical

Center wavelength	2720 ± 10 nm
Pulse duration ^a	< 3 ns
Pulse energy	> 1.3 mJ
Pulse repetition rate ^b	< 1.5 kHz
Peak power	> 500 kW
Average power	> 2 W
Beam quality, M ²	< 7
Polarization	unpolarized
Fast amplitude control and gating	

a) longer pulses available

b) triggerable externally or from internal clock

Cooling

Forced air-cooling	
Warm-up time	< 15 min
Operation temperature	15 – 32 °C
Storage temperature	-20 – 55 °C

Electrical

24 VDC / 12 A or 90 – 264 VAC, 47 – 63 Hz

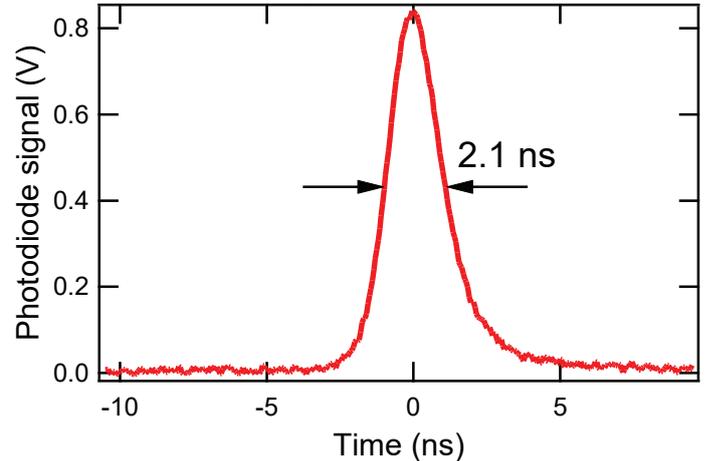
Mechanical

Dimensions	420 x 264 x 89 mm ³
Weight	17 kg
3-point low-stress through-hole mounting accessible from top	

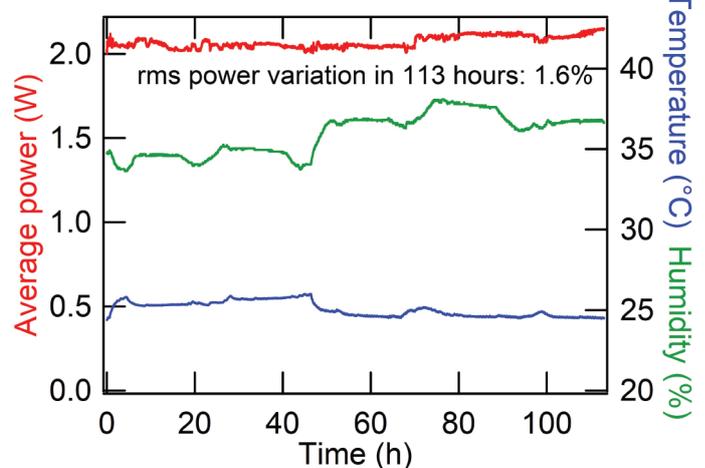
Options

- Fiber delivery
- Purging system

Typical pulse shape measured with 1 GHz bandwidth in mid-infrared



Stability over 113 hours in non-conditioned environment



Applications Medical / Dental / Aesthetics / Environmental sensing / Mass spectrometry



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