

## 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 <sup>a</sup>	< 3 ns
Pulse energy	> 1.3 mJ
Pulse repetition rate <sup>b</sup>	< 1.5 kHz
Peak power	> 500 kW
Average power	> 2 W
Beam quality, M <sup>2</sup>	< 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

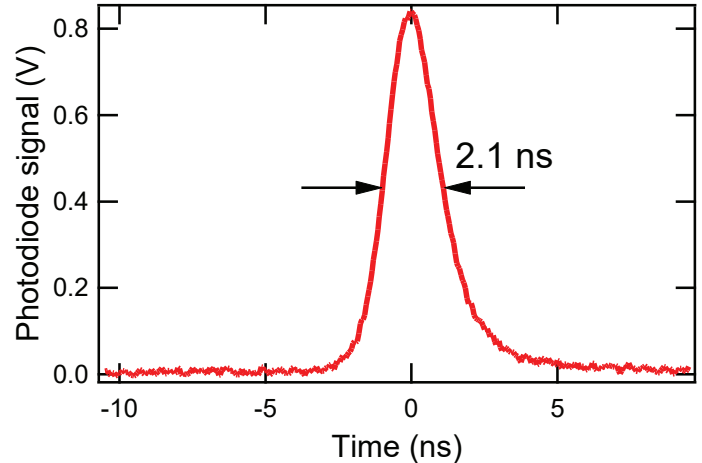
### Mechanical

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

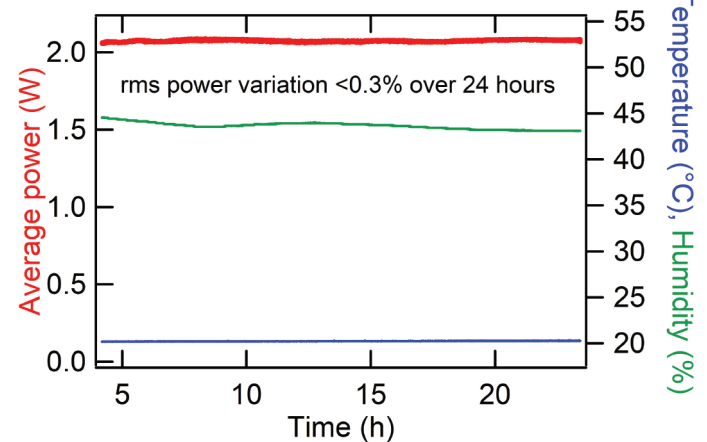
### Options

Fiber delivery  
Purging system

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



Stability over 24 hours in non-conditioned environment



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



Glucoloop AG  
+41 31 503 58 98

[www.glucoloop.com](http://www.glucoloop.com)  
[info@glucoloop.com](mailto:info@glucoloop.com)

Zürich  
Switzerland

