Glucoloop Ivy

Cold-ablation nanosecond mid-infrared laser

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

Specifications

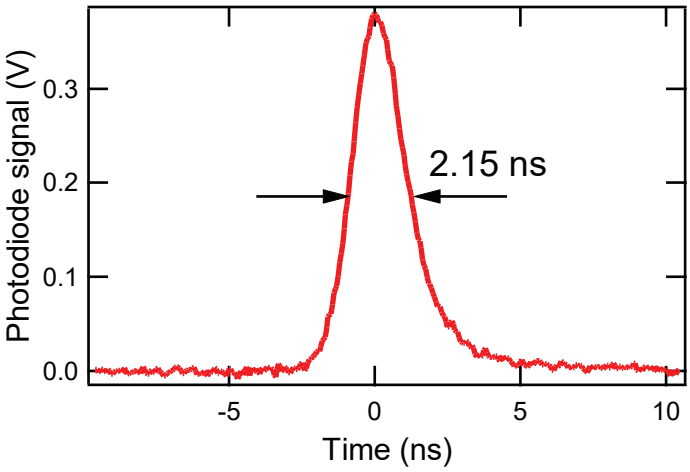
Optical

Center wavelength[a]	2720 ± 10 nm
Pulse duration[b]	< 3 ns
Pulse energy	> 25 µJ
Pulse repetition rate[c]	< 1.5 kHz
Peak power	> 8 kW
Average power	> 37.5 mW
Beam quality, M^2	< 1.1
PER (vertical)	> 20 dB

Internal fast photodiode for trigger output

a) various emission lines available, inquire for exact wavelength
b) longer pulses available
c) variable, externally or internally triggered

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



Cooling

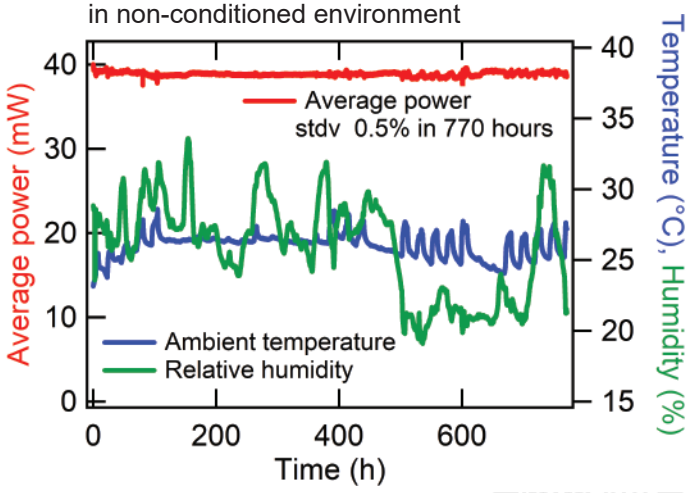
Forced air-cooling

Warm-up time	< 10 min
Operation temperature	15 – 35 °C
Storage temperature	-20 – 55 °C

Electrical

24 VDC / 2.5 A or 90 – 264 VAC, 47 – 63 Hz

Stability over 1 month
in non-conditioned environment



Mechanical

Dimensions	200 x 190 x 73 mm^3
Weight	4.3 kg

3-point low-stress through-hole mounting accessible from top

Options

Fiber delivery
Optical isolation stage
Purging system

Applications

Mass spectrometry / Semiconductor modification / Selective thin-film removal /
Mid-infrared supercontinuum generation / Seeding amplifier systems / Environmental sensing

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