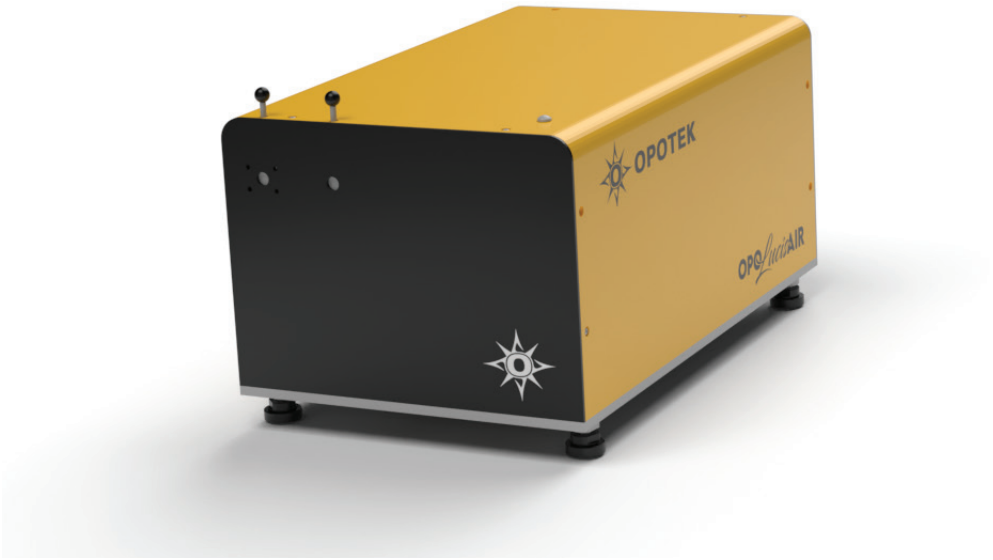
Opolucis™ AIR 2940
OPO Laser



OPOTEK takes compactness and portability to the next level with the Opolucis™ AIR 2940. Based on diode-pumped solid state (DPSS) and optical parameteric oscillator (OPO) technology, the Opolucis™ AIR 2940 is all air-cooled, all-in-one laser designed for instrument integration or confined laboratory spaces that benefit from low RF noise equipment and cannot tolerate water cooled solutions. The 2940 nm wavelength is tuned to the maximum absorption of water and other molecules with -OH and -NH functional groups. Biomolecules relevant to life sciences can be ablated or desorbed intact for capture, ionization or other manipulations on the sub-millimeter cross-section scale.

APPLICATIONS

- MALDI Mass Spectrometry
- *Any application requiring 2940 nm, pulsed laser light in an all-in-one, air-cooled form factor*

SYSTEM FEATURES

- Fully integrated, all-in-one unit
- Completely air-cooled
- DPSS lifetime: 4 billion laser shots
- DPSS and/or Q-Switch external triggering
- Computer controlled via a single USB connection
- Control software and software development kit (SDK)
- No factory installation required
- End user accessible alignment verification
- Access to higher energy 1064 nm beam

OPTIONS

- HP SMA Fiber Coupling Attachment
- Motorized Variable Attenuator (MVA)

OPOTEK

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SPECIFICATIONS	Opolucis AIR 2940
Wavelength (nm)	2940
Pulse Energy (mJ)	5
Repetition Rate (Hz)	20
Linewidth (cm^{-1})	3
Pulse Duration (ns)[1]	< 9
Pulse to Pulse Stability (%)[2]	2
Near Field Beam Diameter (mm)[3]	5
Beam Divergence (mrad)[4]	< 10
Polarization	Vertical
Jitter (ns)[5]	± 1.0
Residual 1064 nm Access (mJ)	50

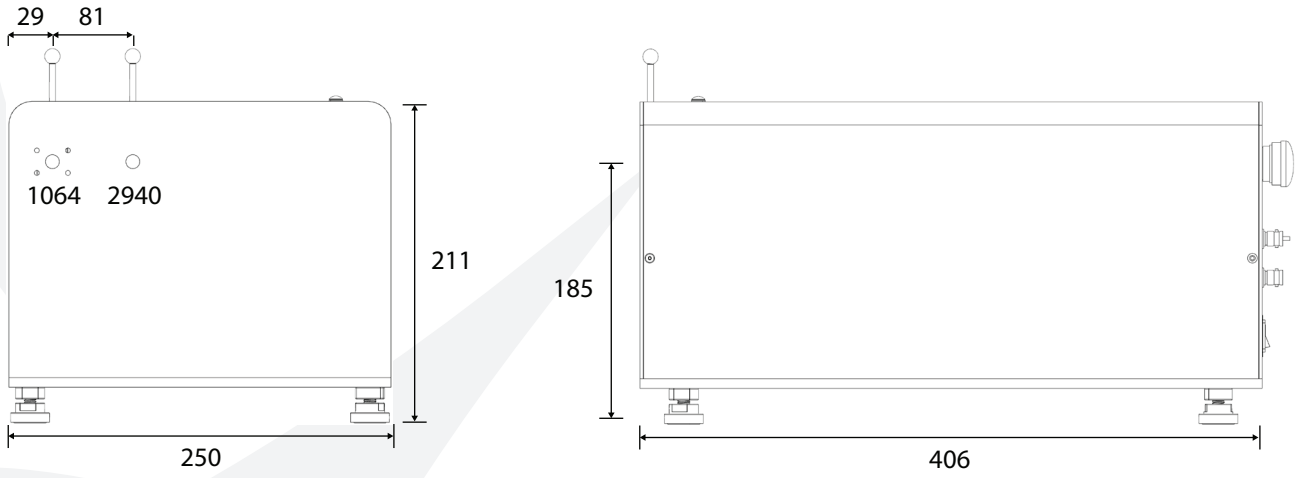
[1] FWHM

[2] RMS, 99% of shots

[4] Full angle for 86% of energy

[5] With respect to ext. trigger

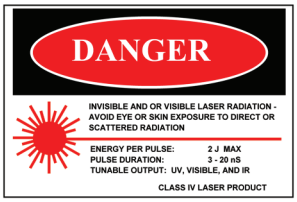
OPOLUCIS AIR 2940 LASERHEAD (12 KG)



OPERATING REQUIREMENTS

- 64-82°F / 18-28 °C ambient operating environment
- 100-240 VAC, 50/60 Hz

OPOTEK LLC is certified to ISO 9001:2015. VERSION 1.00
Tuning curves represent nominal values.
Dimensions approximate in millimeters.
Due to ongoing product improvements, all specifications are subject to change without notice.
Designed and manufactured in California, USA.



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