



The Lucis AIR is a compact, all air-cooled, pulsed-nanosecond Nd:YAG laser based on Diode-Pumped Solid State (DPSS) technology. Pumping with highly efficient diodes not only removes bulky cooling solutions but reduces RF noise and allows 24 VDC operation.

SYSTEM FEATURES

- Fully integrated all-in-one unit
- Diode-Pumped Solid State (DPSS)
- DPSS lifetime: 4 billion laser shots
- Near Gaussian beam profile
- DPSS and/or Q-Switch external triggering
- Completely air-cooled
- Computer controlled via a single USB connection
- No factory installation required

APPLICATIONS

- Light Detection and Ranging (LIDAR)
- Ti:Sa / OPO / Dye Lasers Pumping
- Laser Induced Breakdown Spectroscopy (LIBS)
- Laser Induced Damage Threshold (LIDT)
- Laser Induced Fluorescence (LIF)
- *Any application requiring pulsed laser light from a nanosecond Nd:YAG laser with air cooling*

OPTIONS

- Motorized Variable Attenuator (MVA)
- Second Harmonic Generator (SHG)
- Third Harmonic Generation (THG)
- Fourth Harmonic Generator (FHG)

SPECIFICATIONS	Lucis AIR1000
Fundamental 1064 nm Energy (mJ)	100
532 nm	50
355 nm	30
266 nm	15
Repetition Rate (Hz)	20
Pulse Duration (ns)¹	10
Pulse to Pulse Stability (%)²	2
Near Field Beam Diameter (mm)³	5
Beam Divergence (mrad)⁴	< 3
Polarization	Horizontal
Jitter (ns)⁵	± 1.0
Beam Profile⁶	Bell-shaped
Pointing Stability (μrad)	100

¹ FWHM

² RMS @ 1064 nm, 99% of shots

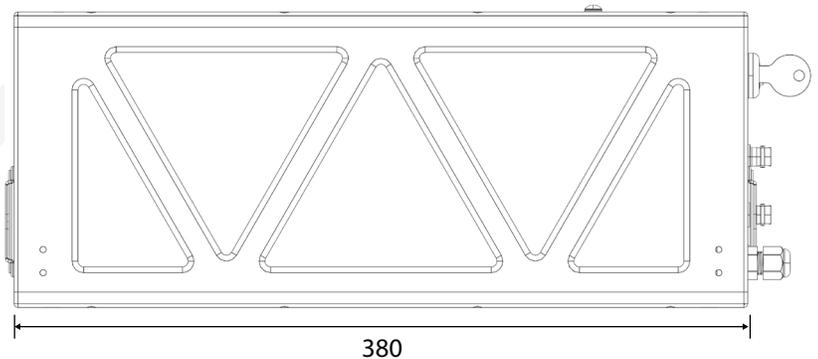
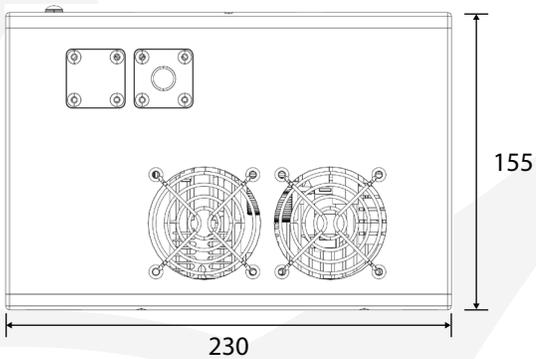
³ At output port

⁴ Full angle for 86% of energy

⁵ With respect to ext. trigger

⁶ Close to gaussian

LUCIS AIR LASERHEAD (11.5 Kg)



OPERATING REQUIREMENTS

- 59-86°F / 15-30 °C ambient operating environment
- 100-240 VAC, 50/60 Hz (24 VDC optional available)

OPOTEK LLC is certified to ISO 9001:2015. VERSION 1.01
 Specifications 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

