Minilite[™] PIV

High Energy Nd:YAG

The Minilite PIV system is based on the Amplitude proven Q-switch Nd:YAG technology. The system is a miniaturized Surelite package providing 10's of mJ in each pulse at 532 nm.

The system offers excellent beam quality, long term stability and increased overall reliability. The ease of operation and safety features, as well as long lifetime, make the Continuum PIV system an excellent choice for your dual pulse application.





Industry:

> LCD repair> Resistor trimming> Metal Sorting> PIV

Medical:

> Sample setup

- > Dimple Tray Illumination
 > Mass spec source
- Science:

> LIF, PLIF, LIBS > MALDI > PIV

Key Features

- > Safety Interlocks to ensure correct water flow, level, and temperature
- > System entirely self-contained, no external water hook-up needed
- > A built-in TTL interface for convenient external control
- > A decoupled kinematic mounted resonator structure ensures long-term thermal and mechanical stability
 > Very compact package



Specifications

I	
Repetition Rate (Hz)	1-15
Energy (mJ) 1064 nm 532 nm	50 25
Pulsewidth ¹ (nsec) 1064 nm 532 nm	4 - 6 3 -5
Divergence ² (mrad)	< 3
Rod Diameter (mm)	3
Energy Stability⁴ (±%) 1064 nm 532 nm	2.0; 0.7 3.0; 1.0
Beam Spatial Profile (fit to Gaussian)⁵ Near Field (<1M) Far Field (∞)	0.70 0.95

ML PIV

All specifications at 1064 nm unless otherwise noted.

Dimensions	
Optical Head (LxWxH)	431.8 x 203.4 x 63.5 mm (17" x 8" x 2.5")
Power Supply (LxWxH)	380 x 197 x 365 mm (15" x 7.75" x 14") each of 2
Weight	
Optical Head	3.6 kg (8 lbs)
Power Supply (2)	14.5 kg (32 lbs) each of two

Water

Γ

Closed loop water to air heat exchanger: external cooling water not required (10 oz. deionized water per PS)

Others

Electrical Service	Option 1: 110 V (4 A) for each power supply OR Option 2: 220 V (2A), 50/60 Hz for each power supply
Room Temperature	18 to 30° C (65 to 87° F)
Umbilical Length	3.18 m (10.4 ft)

¹ Full width half max

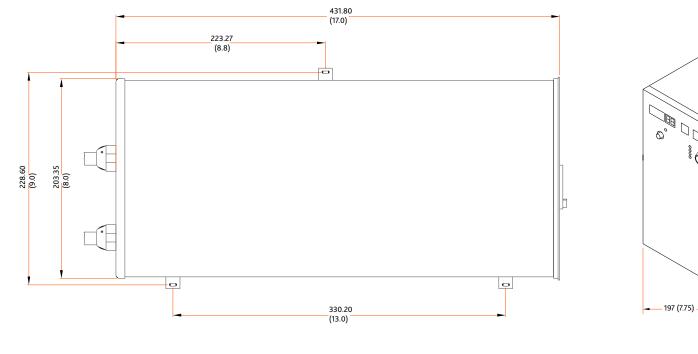
² Full angle for 86% (1/e²) of energy
 ³ With respect to external trigger
 ⁴ The first value represents shot-to-shot for 99.9% of pulses, the second value represents RMS

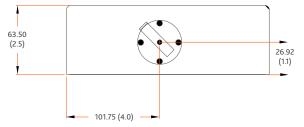
⁵ A least squares fit to Gaussian profile

A perfect fit would have a coefficient of 1

Minilite Physical Layout

Power Supply







365 (14) 0°° 381 (15) **____** 197 (7.75) __

Specifications are subject to change without prior notice \mid © 04-2022 \mid Ref. 1194-d

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