

Minilite™ PIV



Minilite PIV

The Minilite PIV system is based on Continuum's 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.

High Energy Nd:YAG
High Energy Nd:YAG
High Energy Nd:YAG
High Energy Nd:YAG

Safety Interlocks to ensure correct water flow, level, and temperature

No need for an external water hook-up, the system is completely self-contained

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

Minilite PIV Specifications

Description	ML PIV
Repetition Rate (Hz)	1-15
Energy ¹ (mJ)	
1064 nm	50
532 nm	25
Pulsewidth ² (nsec)	
1064 nm	4-6
532 nm	3-5
Divergence ³ (mrad)	<3
Rod Diameter (mm)	3
Jitter ⁴ (±ns)	0.5
Energy Stability ⁵ (±%)	
1064 nm	2.0;0.7
532 nm	3.0;1.0
Beam Spatial Profile (fit to Gaussian) ⁷	
Near Field (<1M)	0.70
Far Field (∞)	0.95



Notes

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

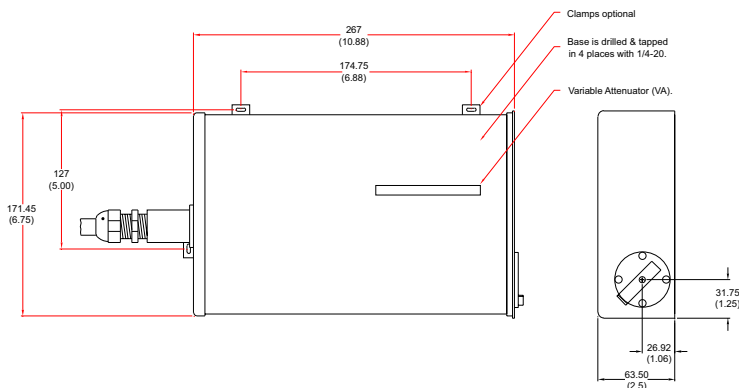
All specifications at 1064 nm unless otherwise noted.
As a part of our continuous improvement program, all specifications are subject to change without notice.

Minilite PIV System Requirements

Size	Optical Head (LxWxH)	431.8 x 203.4 x 63.5 mm (17 x 8 x 2.5")
	Power Supply (LxWxH)	381 x 197 x 365 mm (15" x 7.75" x 14")
Weight	Optical Head	3.6 kg (8 lbs)
	Power Supply (2)	14.5 kg (32 lbs) each of two
Water		closed loop water to air heat exchanger: external cooling water not required (10 oz. deionized water per PS)
Electrical Service		110 V (4 A)
		220 V (2A), 50/60 Hz
Room Temperature		18 to 30° C / 65 to 87° F
Umbilical Length		3.18 m (10.4 ft)

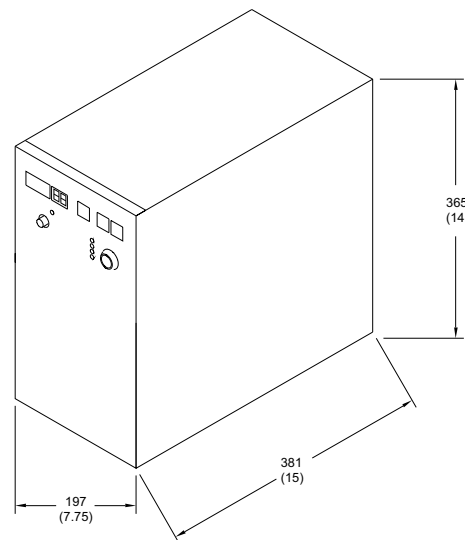
Minilite PIV Physical Layout

All dimensions are in mm (inches)



Minilite PIV Power Supply (one of two)

System includes two power supplies



Continuum
 3150 Central Expressway, Santa Clara, CA
 Tel (408) 727-3240 Fax (408) 727-8237
 USA Sales (866) 532-1064
 www.continuumlasers.com

992-0073, Rev. B 03/10



©2009 Continuum



Photonic Solutions
 Unit A, 40 Captains Road,
 Edinburgh, EH17 8QF, UK,
 Tel: +44 (0)131 664 8122 Fax: +44 (0)131 664 8144
 Email sales@photronicsolutions.co.uk
 Web www.photronicsolutions.co.uk

Continuum[®]
 The High Energy Laser Company[™]