

## Minilite™ PIV



### Minilite PIV

The Minilite PIV system is based on the Continuum 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.

## Minilite PIV Specifications

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

#### Notes

1. Full width half max
2. Full angle for 86% (1/e<sup>2</sup>) 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.

High Energy Nd:YAG  
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**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**

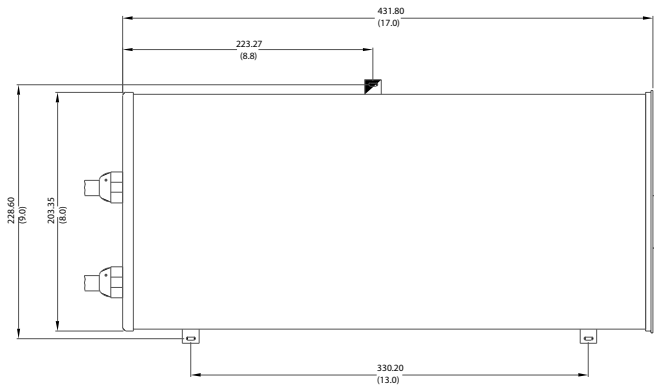
**Very compact package**

# Minilite PIV System Requirements

Size	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		closed loop water to air heat exchanger: external cooling water not required (10 oz. deionized water per PS)
Electrical Service	Power Supply (2)	110 V (4 A) for each power supply
		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)

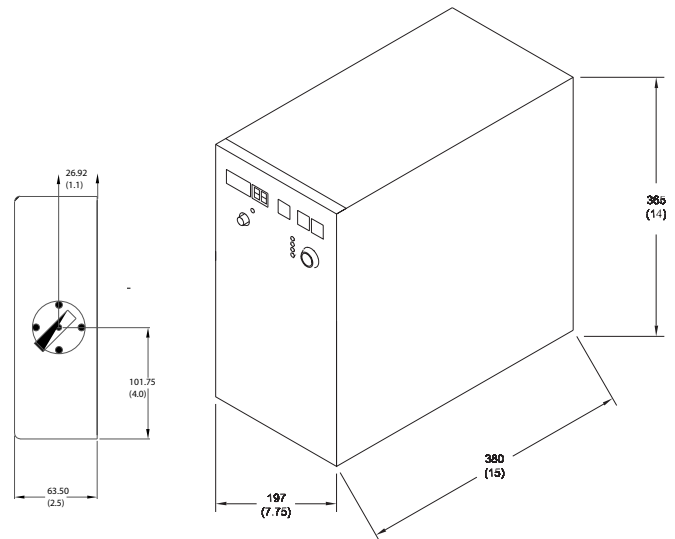
## Minilite PIV Physical Layout

All dimensions are in mm (inches)



## Minilite PIV Power Supply (one of two)

System includes two power supplies



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