

Continuum®

Inlite™ PIV

The Ultimate Source for PIV Applications



Inlite PIV System

INLITE PIV SPECIFICATIONS

| DESCRIPTION* | Inlite II | | Inlite III | |
|--|-----------|-----------|------------|------------|
| | PIV II-20 | PIV II-30 | PIV III-20 | PIV III-30 |
| Repetition Rate (Hz) | 20 | 30 | 20 | 30 |
| Energy (mJ) | | | | |
| 532 nm | 120 | 95 | 200 | 180 |
| 266 nm | 25 | 15 | 40 | 30 |
| Pulsewidth ¹ (nsec) | | | | |
| 532 nm | 5-7 | 6-8 | 6-8 | 6-8 |
| 266 nm | 5-7 | 6-8 | 5-7 | 5-7 |
| Divergence ² (mrad) | <0.75 | <0.75 | <1.5 | <1.5 |
| Beam Diameter ³ (mm) | 6 | 6 | 7 | 7 |
| Jitter ⁴ (±ns) | 0.5 | 0.5 | <1 | <1 |
| Energy Stability ⁵ (3σ; ±%) | | | | |
| 532 nm | 4.0; 1.3 | 4.0; 1.3 | 4.0; 1.3 | 4.0; 1.3 |
| 266 nm | 8.0; 2.6 | 8.0; 2.6 | 8.0; 2.7 | 8.0; 2.7 |

INLITE PIV FEATURES & BENEFITS

Monolithic industrial design, built to withstand shock and vibration

Tight integration of laser heads and PIV dock for optimal performance

Full featured command set and a graphical user interface provide seamless control

Unique ability to externally adjust beam overlap

Built to last - greater than 50 million shots lamp lifetime, guaranteed

Inlite PIV - The Ultimate Source for PIV Applications

The Inlite PIV system is a rugged platform for demanding applications. The unique, monolithic PIV docking platform that contains the laser bench and combining optics cavity is made of cast aluminum for optimal resistance to thermal and vibrational stress. The dock can accept Inlite II and III series lasers, making it the most flexible platform available. The user can reconfigure the Inlite PIV system in the field to shift from 532 nm to 266 nm output.

NOTES

1. Full width half max
2. Full angle for 86% (1/e²) of energy
3. At the output coupler
4. With respect to external trigger
5. The first value represents shot-to-shot for 3σ, the second value represents RMS

*Note: Other configurations available, consult the factory for more information

As a part of our continuous improvement program, all specifications are subject to change without notice.

INDUSTRIAL Nd:YAG

Mechanical and Utilities

| | | |
|--------------------|----------------------------|---|
| Size | Optical Head (L x W x H) | 444.5 x 193 x 122 mm (17.5 x 7.6 x 4.8 in.) |
| | Power Supply (L x W x H) | 572 x 254 x 432 mm (22.5 x 10 x 17 in.) tower 559 x 432 x 267 mm (22 x 17 x 10.5 in.) rack PIV system includes two power supplies |
| Weight | Optical Head | 13.5 kg (30 lbs) |
| | Power Supply | 30 kg (66 lbs) |
| Water Service | | Closed loop water to air heat exchanger (2 l. deionized water): Closed loop water to external cooling water available |
| Electrical Service | | 200 - 240 V 50/60 Hz |
| Room Temperature | | 18.3 to 29.4° C (60 to 85° F) |
| Umbilical Length | | 3.0 m (9 ft 10 in.) |

Accessories

- Harmonics modules for 532 or 266 nm output.
- Internal pyro-electric power detectors for IR.
- Automated continuously variable attenuator, optical losses reduce energy specifications by 10%.

Tower Power Supply*

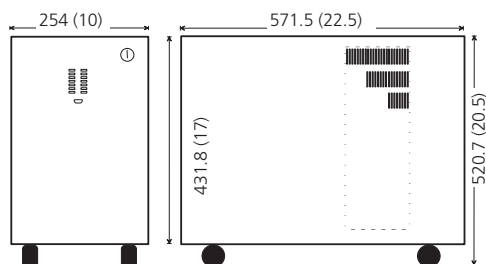
All dimensions in mm (inches)

Laser Head Dimensions

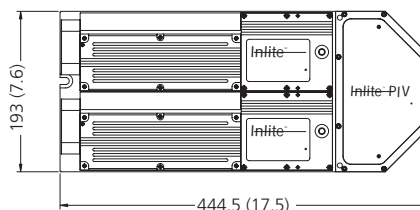
All dimensions in mm (inches)

Front View

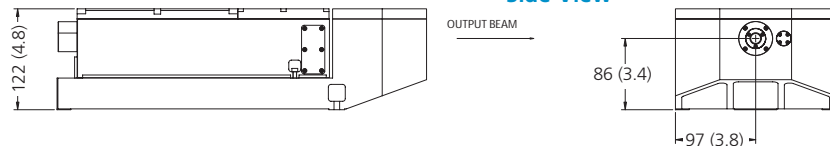
Side View



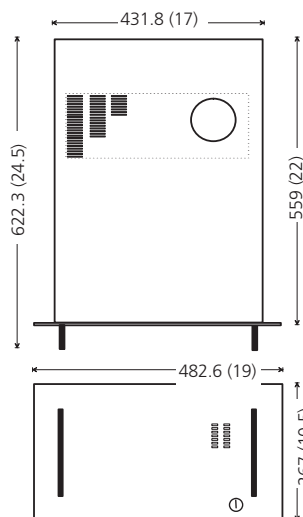
Top View



Side View



Rack Mount Power Supply*



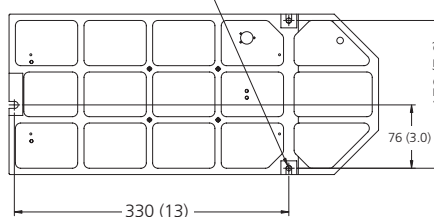
Top View

Front View

NOTE: Faceplate is 10.5" in height. Body of supply is 10.0" to height, centered on faceplate.

*PIV system includes two power supplies

Slots for 1/4-20 mounting screws



Bottom View

