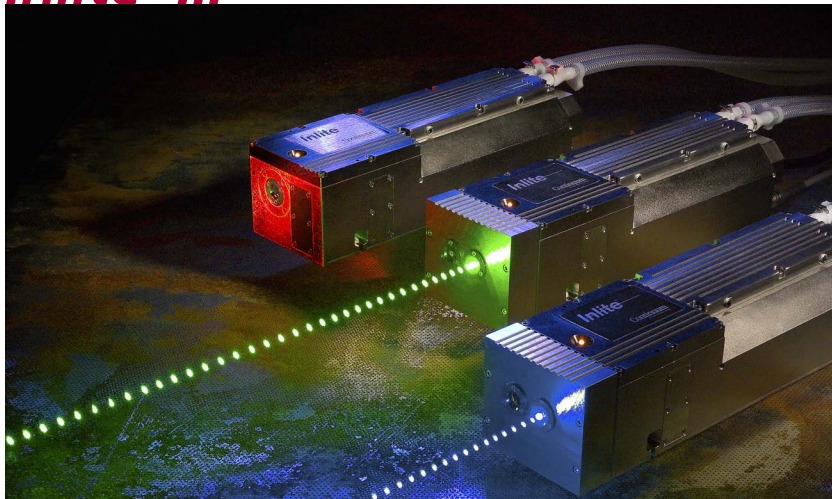


Inlite™ III



Inlite III Series

The Inlite series of pulsed Q-switched laser systems provides high levels of performance and reliability for Industrial and OEM applications. The Inlite is designed for new and existing users of pulsed lasers allowing easy integration, simple external control



and ease of service in a compact package. The cast aluminum body structure is designed to minimize misalignment due to changes in temperature or vibration. The optics cavity is sealed to prevent contamination. Both lamp electrodes are accessible during lamp changes, eliminating problems with corrosion and broken lamps.

Options and accessories can be added to tailor the laser performance parameters to your application. Inlites are used for remote sensing, sample testing, mass spectroscopy, LIF and LIBS.



The Inlite Series lasers use quick disconnect cables for added convenience and ease of use

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

Hardened design for reliable operation in industrial environments

Modular power supply in both rack mount and tower configurations

Easy flashlamp replacement without realignment of the laser oscillator

Cast aluminum resonator structure ensures long-term thermal and mechanical stability

Options and accessories available to simplify integration

Continuum[®]
The High Energy Laser Company™

Inlite III Specifications

Description	Inlite III-10	Inlite III-20	Inlite III-30
Repetition Rate (Hz)	1-10	20	30
Energy (mJ)			
1064 nm	450	450	400
532 nm	200	200	180
355 nm	65	65	55
266 nm	45	45	35
Pulsewidth ¹ (nsec)			
1064 nm	6-8	6-8	6-8
532 nm	6-8	6-8	6-8
355 nm	5-7	5-7	5-7
266 nm	5-7	5-7	5-7
Linewidth (cm ⁻¹)	1	1	1
Divergence ² (mrad)	<1.5	<1.5	<1.5
Beam Diameter ³ (mm)	7	7	7
Jitter ⁴ (±ns)	<1	<1	<1
Energy Stability ⁴ (±%)			
1064 nm	2.0;0.6	2.0;0.6	2.0;0.6
532 nm	4.0;1.3	4.0;1.3	4.0;1.3
355 nm	6.0; 2.0	6.0; 2.0	6.0;2.0
266 nm	8.0;2.7	8.0;2.7	8.0;2.7
Polarization			
1064 nm	Horizontal	Horizontal	Horizontal
532 nm	Vertical	Vertical	Vertical
355 nm	Horizontal	Horizontal	Horizontal
266 nm	Horizontal	Horizontal	Horizontal



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 3 sigma of pulses, the second value represents RMS

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

Accessories

- Harmonics modules for 532, 355, or 266 nm output
- Dichroic beam separation module
- Internal pyro-electric power detectors for IR, harmonics
- External pyro-electric power detector for system loop
- Automated continuously variable attenuator, optical losses reduce energy specifications by 15% except the 30 Hz model, which is 25%.

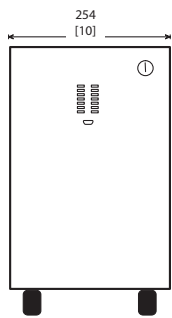
Inlite III System Requirements

Size	Optical Head (LxWxH)	323 x 84 x 94 mm (12.7 x 3.3 x 3.7 in)
	Power Supply (LxWxH)	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
Weight	Optical Head	4.5 kg (10 lbs)
	Power Supply	30 kg (66 lbs)
Water		Closed loop water to air heat exchanger (2 l. deionized water): Closed loop water to external cooling water available
Electrical Service		200 - 240 V (6 A) 50/60 Hz
Room Temperature		18.3 to 29.4° C (60 to 85° F)
Umbilical Length		3.0 m (9 ft 10 in)

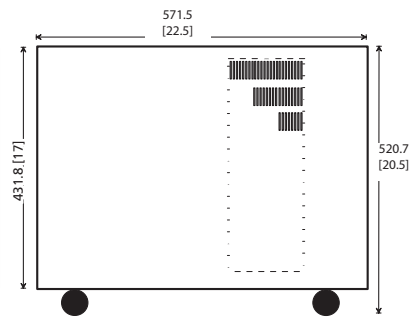
Tower Power Supply

All dimensions are in mm (inches)

Front View

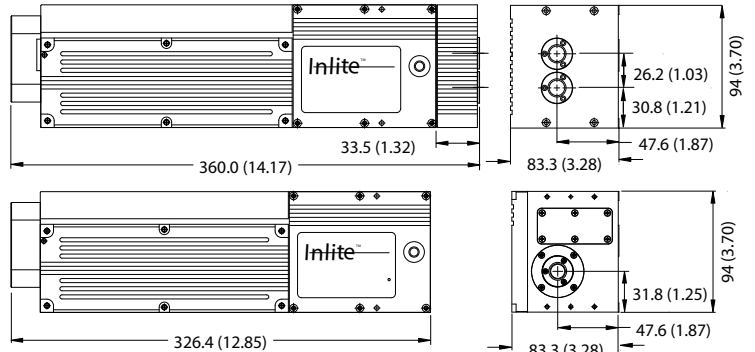


Side View

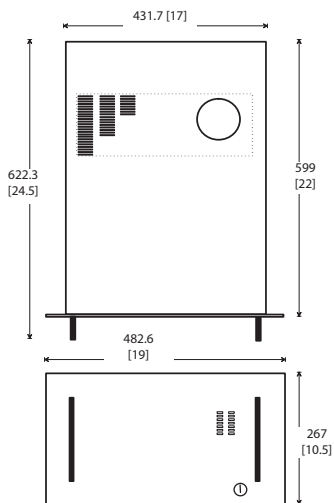


Inlite Physical Layout

Top View



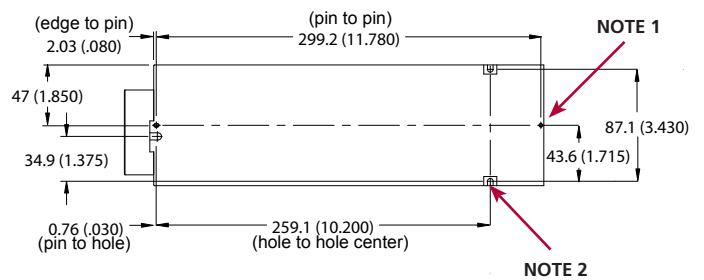
Rack Mount Power Supply



Top View

Front View

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



Bottom View

NOTE 1 3/32" location pin (2x)
NOTE 2 Clearance Slots for M4
Allen head screws (3x)



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992-0074, Rev. E 05/14

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