

Minilite™ OEM The Entry Level Nd:YAG Laser System



Minilite™ OEM and a rack mount power supply

MINILITE™ OEM FEATURES & BENEFITS

Can be operated locally or remotely via TTL interface

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

Easy flashlamp replacement without alignment of the laser oscillator

Invar resonator structure ensures long-term thermal and mechanical stability

Bold ruggedized packaging ideal for harsh OEM environments

FLASHLAMP PUMPED Nd:YAG

MINILITE™ OEM SPECIFICATIONS

DESCRIPTION	MINILITE™ I	MINILITE™ II
Repetition Rate (Hz)	1-15	1-15
Energy (mj)		
1064 nm	28	50
532 nm	12	25
355 nm	4	8
266 nm	2	4
Pulsewidth ¹ (nsec)		
1064 nm	5-7	5-7
532 nm	3-5	3-5
355 nm	3-5	3-5
266 nm	3-5	3-5
Linewidth (cm ⁻¹)	1	1
Divergence ² (mrad)	< 3	< 3
Rod Diameter (mm)	3	3
Jitter ³ (±ns)	0.5	0.5
Energy Stability ⁴ (±%)		
1064 nm	2; 0.6	2; 0.6
532 nm	3; 1.0	3; 1.0
355 nm	4; 1.3	4; 1.3
266 nm	8; 2.6	8; 2.6
Polarization		
1064 nm	HORIZONTAL	HORIZONTAL
532 nm	VERTICAL	VERTICAL
355 nm	HORIZONTAL	HORIZONTAL
266 nm	HORIZONTAL	HORIZONTAL

Minilite™ OEM - Continuum's rugged entry level Q-switched Nd:YAG laser system.

The Minilite™ OEM Series of pulsed Q-switched laser systems offers all of the performance benefits of the standard Minilite™ Series along with a new ruggedized package, while still maintaining a very reasonable price point. The Minilite™ OEM is ideal for the most demanding OEM applications. The rack mount power supply allows for easy incorporation into OEM equipment and the simple user interface is designed to allow communication through TTL commands. The Minilite™ OEM is well suited for applications such as mass spectroscopy, photo-mask repair, and dye fluorescence spectroscopy for biological studies.

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.

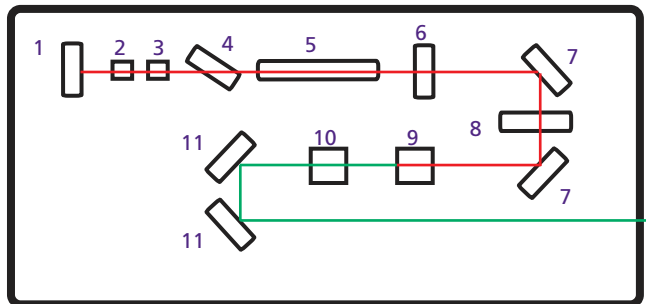
All specifications at 1064 nm unless otherwise noted. As a part of our continuous improvement program, all specifications are subject to change without notice.

The Minilite™ OEM platforms offer user accessible harmonic generators, integrated energy attenuator and simple operation. The Minilite™ OEM Series also features a single YAG rod/flashlamp pump chamber, invar resonator, and a stable resonator design which offers maximum energy extraction and excellent beam quality.

MECHANICAL AND UTILITIES

Size	Optical Head (L x W x H)	270 x 178 x 63 mm (10.6 x 7.0 x 2.5 in.)
	Power Supply (L x W x H)	560 x 482 x 133 mm (22 x 19 x 5.25 in.)
Weight	Optical Head	4.6 kg (10.25 lbs)
	Power Supply	12.7 kg (28 lbs)
Water Service		Closed loop water to air heat exchanger: external cooling water not required (10 oz. deionized water)
Electrical Service (Specify on Order)		110 V (3 A)
		220 V (1.5 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.)

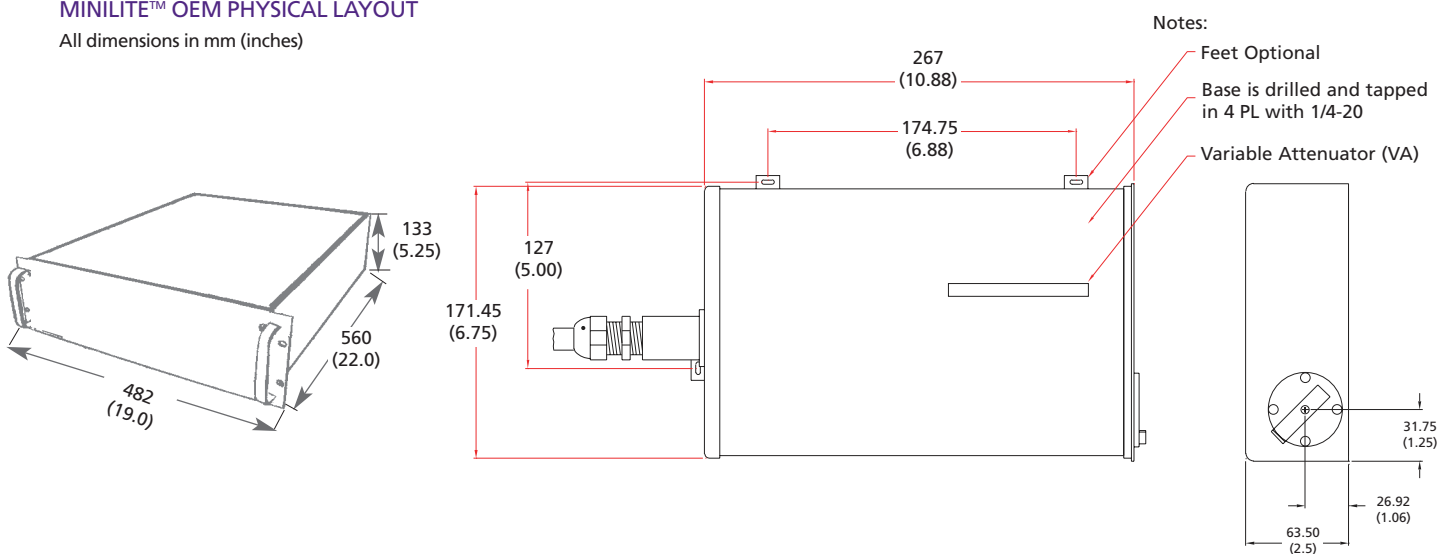
MINILITE™ OEM OPTICAL LAYOUT



1. Rear Mirror
2. Pockels Cell
3. 1/4 Wave Plate
4. Dielectric Polarizer
5. Rod
6. Output Coupler
7. IR Mirror
8. Attenuator
9. Second Harmonic Generator
10. Third or Fourth Harmonic Generators
11. 532, 355 or 266 nm Mirrors

MINILITE™ OEM PHYSICAL LAYOUT

All dimensions in mm (inches)



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