

Titan Infinity CW 355 nm



FEATURES

- ~ Up to 200 mW TRUE CW Power
- ~ Ultra Low Noise < 1% rms
- ~ Low Cost
- ~ Excellent Beam Quality $M^2 < 1.3$
- ~ Industrial Design
- ~ Stability Better Than 5% Over 8 Hours
- ~ Full RS-232 Interface

The Titan Infinity Series from DPSS Lasers Inc. is the first TRUE CW DPSS UV high power solid state laser on the market. Built on a backbone of field-proven intra-cavity conversion technology (US Patent #6,002,695), the Titan Infinity is also the low-cost leader in the high power CW UV arena. This system boasts an impressive 200 mW output generated with an ultra-efficient, ultra-quiet power plant, all contained within a rigid sealed structure for years of trouble-free performance.

The new Titan Infinity Series is specifically designed to meet the needs of applications that have historically settled for mode locked technology when a true CW source would have been ideal. Its ultra-stable output, both in the long term and very short time spectrums makes it ideal for applications such as Confocal Microscopy, Flow Cytometry, and Bio-fluorescence.

Its industrial design, developed from decades of UV manufacturing experience, is ideally suited to both delicate scientific experiments as well as industrial 24/7 "workhorse" environments. The Titan Infinity Series offers maximum flexibility without sacrificing performance and features.

*Model	Avg. Power
TCW50	50 mW
TCW100	100 mW
TCW150	150 mW
TCW200	200 mW

*Other Models Available Upon Request

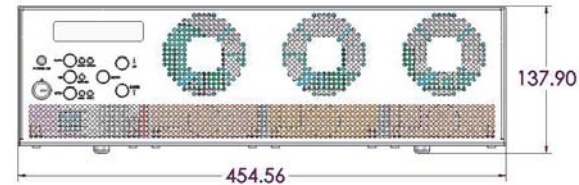
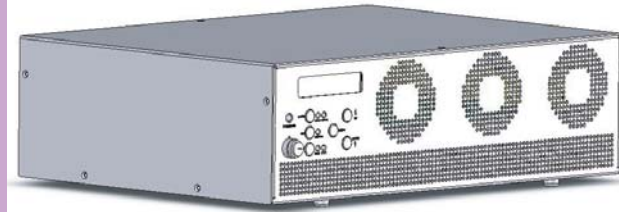
APPLICATIONS

- * Flow Cytometry
- * Confocal Microscopy
- * Bio-fluorescence
- * Biological Threat Detection
- * Photo Bleaching
- * Inspection

SPECIFICATIONS

PERFORMANCE

Wavelength	354.7 nm
Mode (M ²)	TEM ₀₀ (M ² < 1.3)
Beam Diameter (1/e ²) @ exit	1.2 mm Typ.
Optical Noise P-P (0 - 2 MHz)	< 10%
Optical Noise RMS	< 1%
Power Stability (8 hrs. at const. temp.)	< 5%
Beam Pointing Stability (const. temp.)	< 25 μrad
Polarization (Linear, Horizontal)	> 100:1
Beam Divergence (full angle)	< 0.3 mrad
Elipticity	< 10%
Astigmatism	< 0.3
Warm-up Time	< 1 Hr.



ELECTRICAL

Input Voltage	90 - 240 VAC
Power Consumption (max.)	< 1000 W
Ambient Operating Temp. (non-condensing)	10 - 30° C



PHYSICAL

Laser Head Dim. (LWH)	52.1 x 25.4 x 12.9 cm
Laser Head Weight	15.9 kg
Laser Power Supply Dim. (LWH)	33.0 x 45.5 x 13.7 cm
Laser Power Supply Weight	10.5 kg
Cooling System Dim. (LWH)	28.7 x 22.4 x 38.9 cm
Cooling System Weight (dry)	9.1 kg

*Specifications subject to change without notice
Drawing dimensions in millimeters

