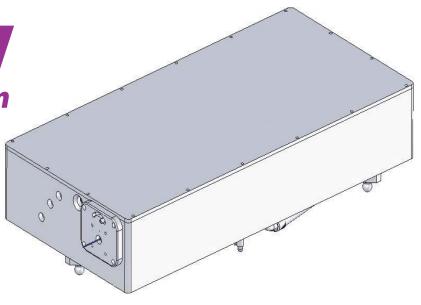


FEATURES

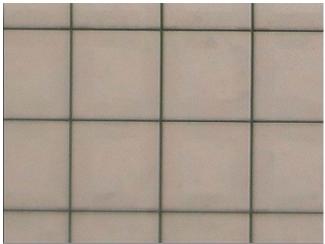
- ~ Up to 5W Power at 355 nm
- ~ Low Cost
- ~ Excellent Beam Quality M2 < 1.2
- ~ Industrial Design
- ~ Q-Switched--Single shot to 300 kHz
- ~ Stability Better Than 5% Over 8 Hours
- ~ Full RS-232 Interface



The Titan UV Series from DPSS Lasers Inc. is our most advanced UV laser to date. Built upon field-proven intra-cavity conversion technology (US Patent #6,002,695), the Titan UV is the low-cost leader in the UV market. This system boasts an impressive 5W UV output generated with an ultra-efficient power plant, all contained within a rigid sealed structure for years of trouble-free performance.

The new Titan UV is geared toward the rapidly growing UV marking and machining markets. Pulse energies up to 150 uJ/pulse make it ideally suited to both delicate scientific experiments as well as industrial 24/7 "workhorse" environments.

The Titan UV offers maximum flexibility without sacrificing performance and features. The system can be remotely operated and monitored through an integrated RS-232 port and through a TTL Remote connection for high-precision time-critical applications. The Titan UV also offers the flexibility of a customer settable variable repetition rate from single shot to 300 kHz.



355nm UV Sapphire Scribing

APPLICATIONS

- * Laser Marking
- * Solar Cell Processing
- * Thick/Thin Film Laser Trimming
- * ITO Removal
- * Sapphire Scribing
- * Micromachining
- * Direct Write/Repair
- * Micro-via Hole Drilling
- * Biological Threat Detection
- * Polyamide Cutting & Drilling
- * Photo Bleaching

SPECIFICATIONS

<u>Model</u>	Avg. Power	Peak Power	Pulse Length	Repetition Rate	Pulse Energy
T20-150	> 2.0 W	> 150 W	< 80 ns	150 kHz	13 uJ
T30-100	> 3.0 W	> 500 W	< 60 ns	100 kHz	30 uJ
T40-50	> 4.0 W	> 2000 W	< 40 ns	50 kHz	80 uJ
T50-30	> 5.0 W	> 6000 W	< 30 ns	30 kHz	166 uJ

354.7 nm

3.0 mm

< 10%

< 50 µrad

< 0.2 mrad

10 - 35° C

9.1 kg

> 100:1

< 5%

TEMoo $(M^2 < 1.2)$

PERFORMANCE

Wavelength Mode (M²)

Beam Diameter (1/e²)

Pulse to Pulse Stability (30 - 100 kHz) Power Stability (8 hrs. at const. temp.) Beam Pointing Stability (const. temp.)

Polarization (Linear, Horizontal) Beam Divergence (full angle)

ELECTRICAL

Input Voltage

Power Consumption (max.)

Ambient Operating Temp. (non-condensing)

90 - 240 VAC 900 W

PHYSICAL

Laser Head Dim. (LWH) Laser Head Weight Laser Power Supply Dim. (LWH) Laser Power Supply Weight Cooling System Dim. (LWH)

Cooling System Weight (dry)

52.1 x 25.4 x 12.4 cm 15.9 kg 33.0 x 45.5 x 13.7 cm 10.5 kg 28.7 x 22.4 x 38.9 cm

7.0 90 UV Power (W) 80 Pulse (ns) 6.0 70 5.0 UV Power, W 60 4.0 50 40 3.0 30 2.0 20 1.0 10 0.0 0 30 0 90 120 150 Repetition Rate kHz

