

## **The Jewel DPSS Lasers**

The Jewel Laser Diode Pumped Q-switch Nd: YAG laser

The Jewel is a rugged, monolithic designed, air cooled, diode pumped laser which can supply 10mJ energy, with rep rates up to 20Hz. This reliable, light-weight, and compact laser features easy to swap components making the Jewel ideal for commercial and OEM appli-cations.

## FEATURES:

- Compact, Monolithic Resonator
- Efficient, Reliable Diode Pumped
- Excellent Shot to Shot Stability
- Integrated Electronics and Thermal Management
- High Efficiency Pumphead, 20Hz Less Than 5W
- USB Standard With Optional Bluetooth



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## **ADDITIONAL INFORMATION**

Laser Resonator (w/o electronics): Size Temperature Range

35mm x 95mm x 25mm 15/30°C, Conductively cooled

Optical Laser (w/ integrated electronics & thermal management) Size 82mm x 180mm x 60mm Operational Temperature Range 15/30°C, Internal thermal management

Storage Temperature Range

Power Requirements Diode Lifetime 36VDC, 25 to 50 300,000,000 pulses



## **TECHNICAL SPECIFICATIONS**

10/50°C

	Std
Rep Rate (Hz)	1 to 20
Energy per Pulse (mJ)	
1064nm	10
532nm	4
355nm	2
266nm	1.5
Energy Stability (% RMS)	
1064nm	<2.5
532nm	<3.5
355nm	<5.0
266nm	<5.0
Energy Variance (% (max-min)/(max+min))	
1064nm	< 5.0
532nm	<70
355nm	<10.0
266nm	<10.0
Pulse Duration (ns)	
1064nm	10+2.0
532nm	9+2.0
355nm	8+2.0
266nm	8±2.0
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Timing Jitter ( ±ns )	<2
Beam Divergence (mrad)	
1064nm	<6
532nm	<5
355nm	<4
266nm	<4
Beam Diameter (mm)	$2.0 \pm 0.5$



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