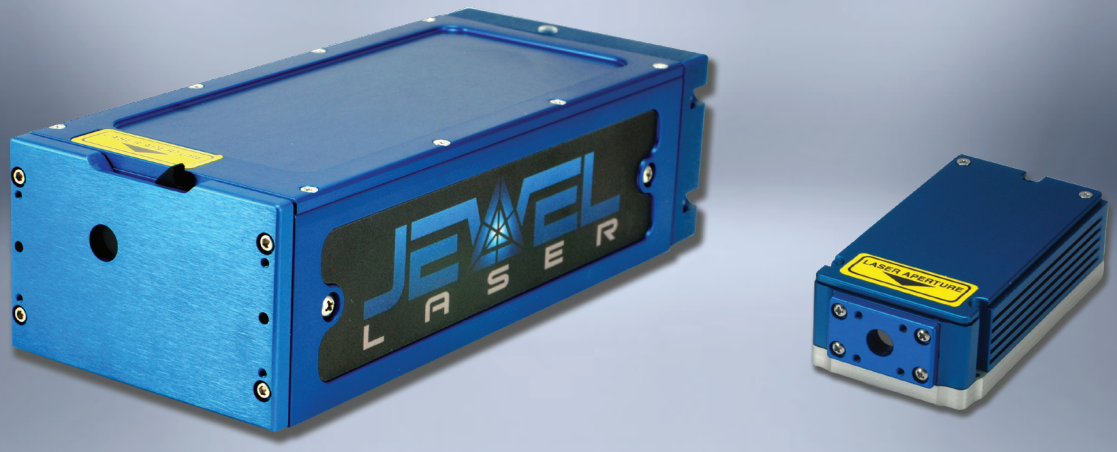
JEWEL LASER



The Jewel DPSS Lasers

The Jewel Laser
Diode Pumped Q-switch
Nd: YAG laser: 1064nm, 532nm, 355nm, 266nm

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

FEATURES:
- Energy Max: 10mJ
- Rep Rate: Up to 20Hz
- Excellent Shot to Shot Stability
- Diode Pumped to Increase Reliability & Efficiency
- Integrated Electronics and Thermal Management
- High Efficiency Pumphead, 20Hz Less Than 5W
- Standard USB Communications

Quantum® COMPOSERS

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ADDITIONAL INFORMATION

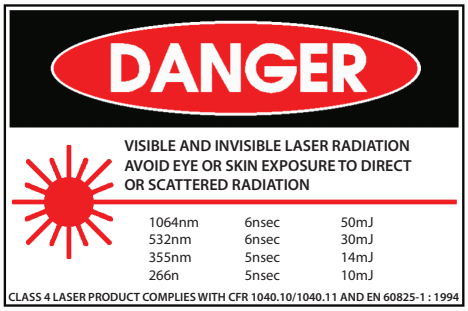
Laser Resonator (w/o electronics):

Size	35mm x 95mm x 25mm
Temperature Range	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	10/50˚C

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



TECHNICAL SPECIFICATIONS

	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	<7.0
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
Timing Jitter (±ns)	<2
Beam Divergence (mrad)	
1064nm	<6
532nm	<5
355nm	<4
266nm	<4
Beam Diameter (mm)	2.0 ± 0.5

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