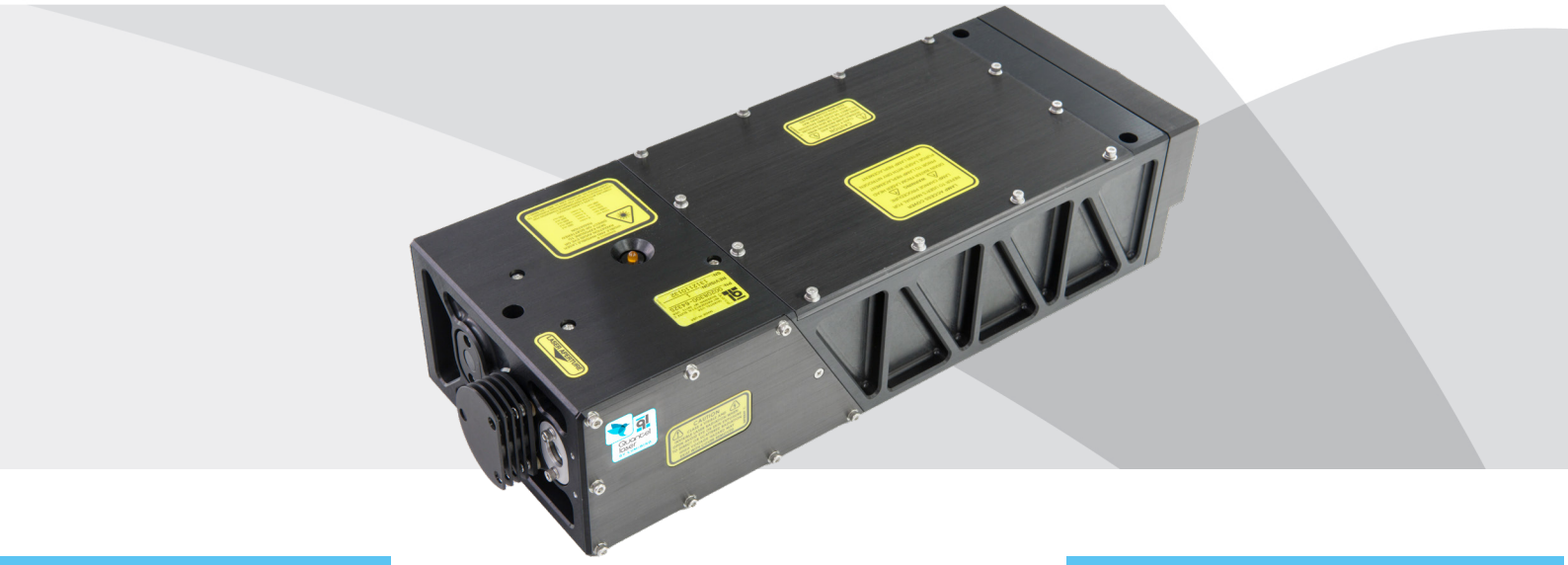
DRL

Compact Dual-Rod pulsed Nd:YAG laser

Quantel laser BY LUMIBIRD



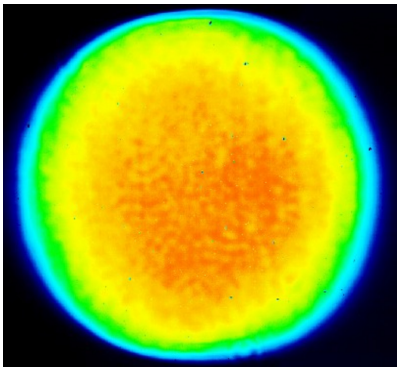
MAIN FEATURES

- Compact laser head for easy integration
- Sealed head for operation in various environments
- Pulse energy up to 800 mJ @ 1064 nm
- 1064, 532 or 355 nm available
- Repetition rate up to 30 Hz

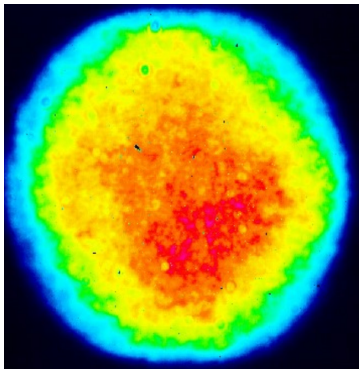
MAIN APPLICATIONS

- **MEDICAL**
- **LIF**
- **LiDAR**
- **ABLATION**
- **Ti:Sa PUMPING**

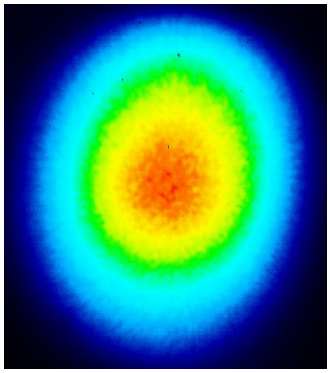
Typical beam profiles



Near field @ 1064 nm, stable resonator
650 mJ, 30 Hz



Near field @ 355 nm, stable resonator
150 mJ, 30 Hz



Far field @ 532 nm, stable resonator
370 mJ, 10 Hz

REVD - Lumibird reserves the right to modify the specifications without prior notice.

www.quantel-laser.com

Many options and configurations are available.
Please contact Lumibird to find the best match for your needs and compatibility between options.

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CE

DRL

Compact Dual-Rod pulsed Nd:YAG laser

Quantel laser BY LUMIBIRD

SPECIFICATIONS

		DRL					
Resonator type		**Stable**			**GRM**		
Repetition rate (Hz)		**10**	**20**	**30**	**10**	**20**	**30**
Energy per pulse (mJ)	**1064 nm**	**800**	**700**	**650**	**650**	**550**	**450**
	532 nm	**370**	**340**	**300**	**350**	**300**	**200**
	355 nm	**190**	**170**	**150**	**170**	**160**	**140**
Pulse duration (ns) (1)	**1064 nm**	**< 15**					
Beam diameter (mm) (2)	**1064 nm**	**< 12.5**					
Beam divergence (mrad) (3)	**1064 nm**	**< 5**			**< 1.5**		
Pulse to pulse energy stability (%) (4)	**1064 nm**	**< 1.5**					
	532 nm	**< 2**					
	355 nm	**< 3**					

(1) Measured at FWHM with fast photodiode and 300 MHz oscilloscope
(2) At the output of the laser
(3) Full angle, at $1/e^2$ of the peak
(4) RMS, 99 % of shots

Power drift (%) (1)	**1064 nm**	**± 5**
Pointing stability (µrad) (2)	**All wavelengths**	**< 100**
Jitter (ns) (3)	**All wavelengths**	**< ± 2**
Linewidth (cm^{-1}) (4)	**1064 nm**	**1**

(1) Over 8 hours, 18 °C < T < 28 °C, for ΔT < ± 5 °C
(2) Full angle, 99 % of shots
(3) With respect to Q-Switch trigger
(4) Measured at FWHM

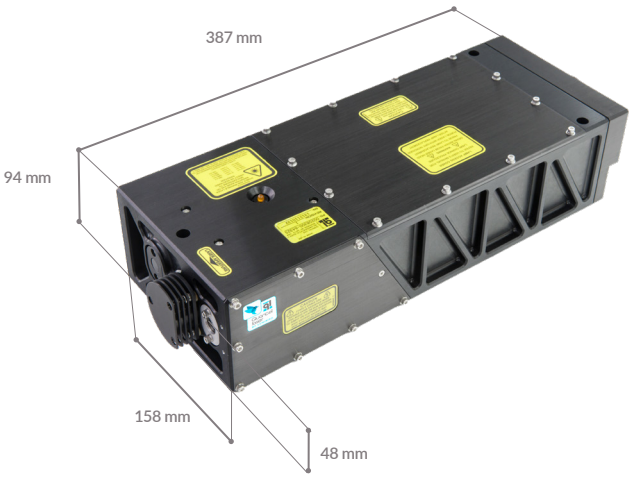
OTHER INFORMATION		
Power requirements		**200-240 VAC, 50/60 Hz, 5A, single phase**
Cooling		**Water to air**
Temperatures	**Operating**	**+ 10 °C to + 30 °C**
	Storage	**+ 5 °C to + 50 °C**
Laser head sealing		**IP 66**
Vibration and shocks		**Complies with MIL-STD-810**
Max. altitude (m)		**2000**
Cable length (m)		**3 (1)**
Flashlamps warranty		**100 million shots (2)**
Weight (kg)	**Laser head**	**6.4**
	Integrated cooling & electronics	**18.1**

(1) Other lengths up to 15 m on request
(2) 80 % of energy, or 1 year, whichever comes first

Integrated cooling & electronics



Laser head





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