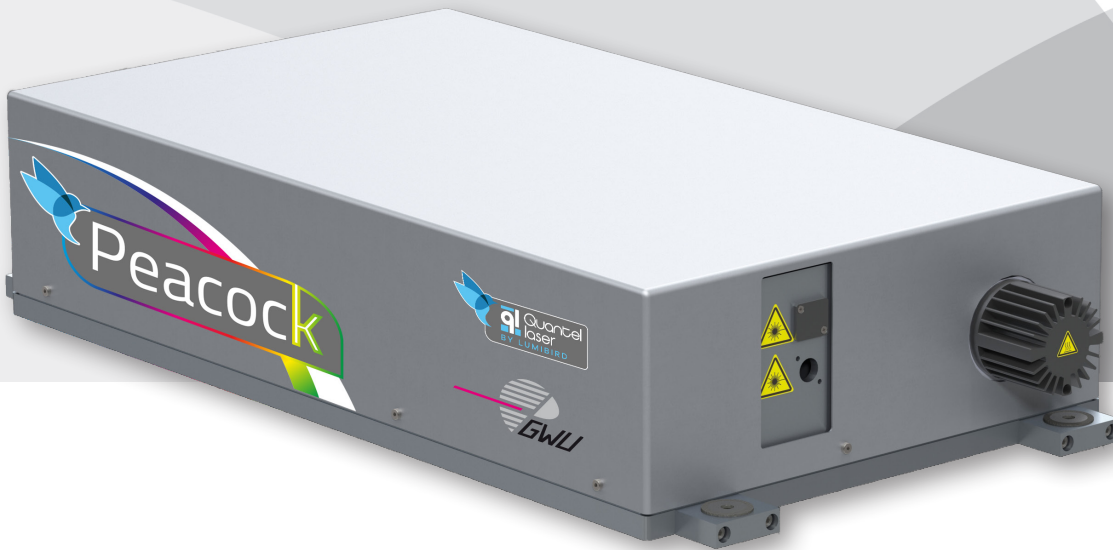


PEACOCK 532

Pulsed Nd:YAG and Optical Parametric Oscillator
Integrated System



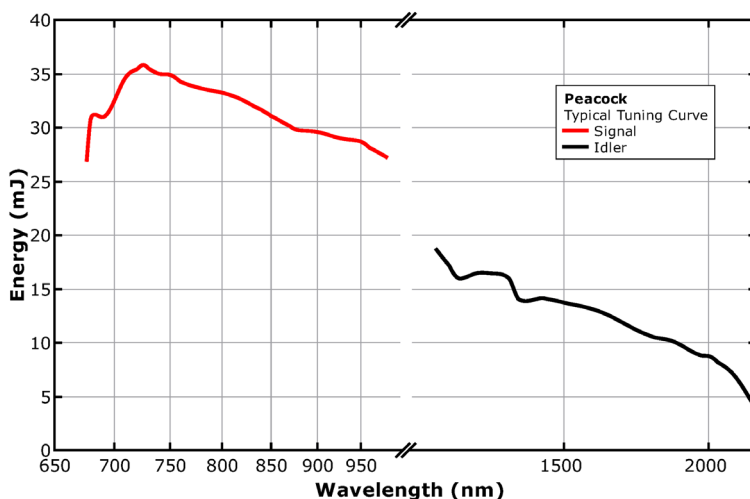
MAIN FEATURES

- Compact, integrated Nd:YAG-OPO platform
- Designed for easy integration
- Up to 30 Hz
- Rugged, all-solid-state design for maximum reliability
- Real-time analog OPO energy monitor output
- Fully automated for hands-free operation
- User defined fiber-delivery or free-space output
- 19" rack power supply available

MAIN APPLICATIONS

- MEDICAL & BIOTECHNOLOGY
- SPECTROSCOPY
- REMOTE SENSING
- PHOTOACOUSTIC IMAGING
- LiDAR

Typical tuning curve



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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PEACOCK 532

Pulsed Nd:YAG and Optical Parametric Oscillator Integrated System



SPECIFICATIONS

		Peacock 532
Wavelength (nm)	Signal	680 - 980
	Idler	1150 - 2200
Peak energy (mJ) @ 725 nm		35
Repetition rate (Hz) ⁽¹⁾		30
Pulse duration (ns) ⁽²⁾		< 9
Beam diameter (mm) ⁽³⁾		6
Linewidth (nm) ⁽⁴⁾ @ 725 nm		< 3
Beam delivery		Customer defined fiber coupled or free space
		Pump laser
Wavelength (nm)		532
Energy per pulse (mJ)		130
Pulse duration (ns) ⁽²⁾		< 13
Beam diameter (mm) ⁽⁵⁾		< 6.35
Beam divergence (mrad) ⁽⁶⁾		< 1.5

- (1) Other repetition rates on request
- (2) Measured at FWHM with fast photodiode and 1 GHz oscilloscope
- (3) At the output of the OPO
- (4) Linewidth depends on wavelength
- (5) At the output of the laser
- (6) Full angle, at 1/e² of the peak

OTHER INFORMATION

Power requirements	100-240 VAC, 50/60 Hz, single phase
Cooling	Water to air
Operating temperature	18 °C to 28 °C
Storage temperature ⁽⁷⁾	- 10 °C to + 50 °C
Cable length (m) ⁽⁸⁾	3
Flashlamps warranty	50 million shots ⁽⁹⁾

- (7) System rinsed and drained with EGW-water mixture
- (8) Other lengths up to 10 m on request
- (9) 80% of energy, or 1 year, whichever comes first

Laser head



Integrated cooling & electronics



19" rack option

VISIBLE AND INVISIBLE LASER RADIATION
AVOID EYE OR SKIN TO DIRECT
OR SCATTERED RADIATION.

CLASS 4 LASER RADIATION PRODUCT

Max. Average Power	: 20 W
Max. Energy/pulse	: 2J
Pulse duration	: <20ns
Emitted Wavelength	: 190/4000nm

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