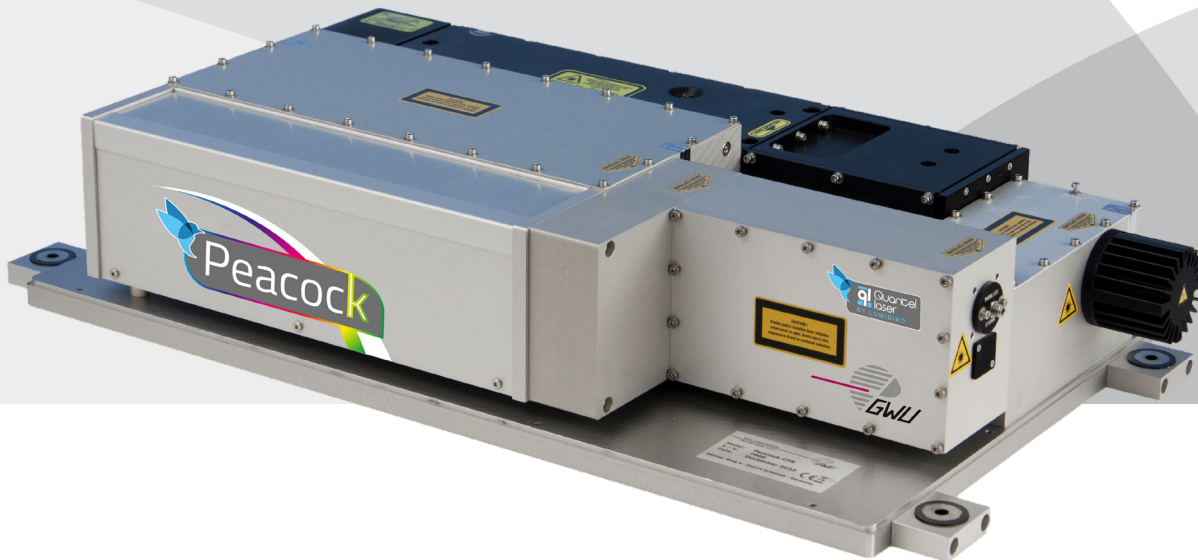


# PEACOCK 532

Pulsed Nd:YAG and Optical Parametric Oscillator  
Integrated System



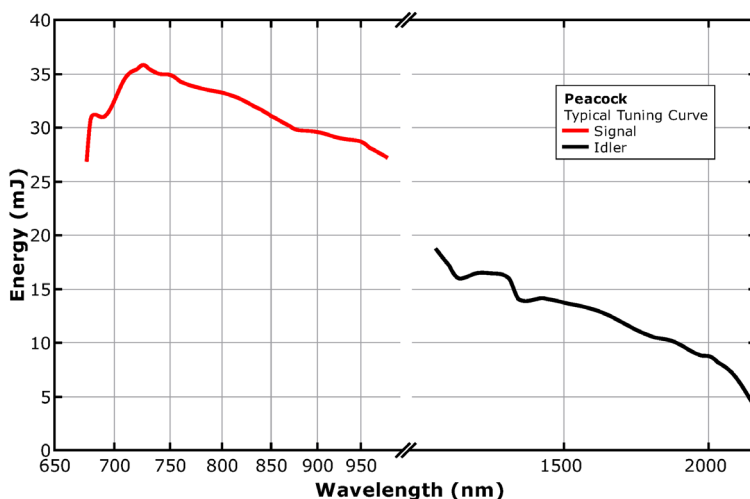
## MAIN FEATURES

- 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



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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		
Repetition rate (Hz)		10	20	30
Peak energy (mJ) @ 725 nm		35	32	25
Pulse duration (ns) <sup>(1)</sup>		< 9		
Beam diameter (mm) <sup>(2)</sup>		6		
Linewidth (nm) <sup>(3)</sup> @ 725 nm		< 3		
Beam delivery		Customer defined fiber coupled or free space		
		Pump laser		
Wavelength (nm)		532		
Repetition rate (Hz)		10	20	30
Energy per pulse (mJ)		130		110
Pulse duration (ns) <sup>(1)</sup>		< 13		
Beam diameter (mm) <sup>(4)</sup>		< 6.35		
Beam divergence (mrad) <sup>(5)</sup>		< 1.5		

- (1) Measured at FWHM with fast photodiode and 1 GHz oscilloscope
- (2) At the output of the OPO
- (3) Linewidth depends on wavelength
- (4) At the output of the laser
- (5) Full angle, at 1/e<sup>2</sup> 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 <sup>(6)</sup>	- 10 °C to + 50 °C
Cable length	3 m (10 feet) <sup>(7)</sup>
Flashlamps warranty	50 million shots <sup>(8)</sup>

- (6) System rinsed and drained with EGW-water mixture
- (7) Other lengths up to 10 m on request. Energy losses are to be expected.
- (8) 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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