

EVERGREEN TWINS

Quadruple-pulse Nd:YAG lasers for PIV



NEW!



MAIN FEATURES

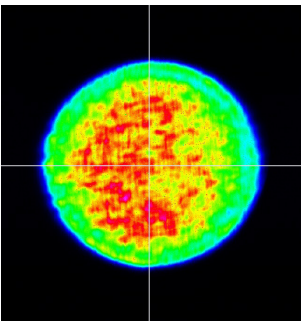
- Built to withstand harsh environments
- IP 66 sealed
- MIL-STD-810 compliant for vibrations and shocks
- Temperature cycled
- Easily portable for real world applications with grab and go handles
- From shipping box to lasing in less than 10 min
- Beam overlap warranted for 2 years

MAIN APPLICATIONS

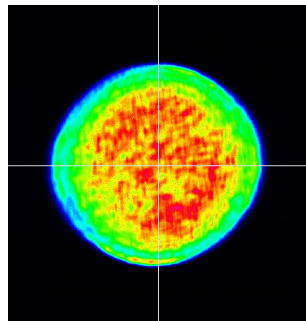
- PARTICLE IMAGE VELOCIMETRY
- LASER INDUCED FLUORESCENCE
- COMBUSTION

Typical beam profiles

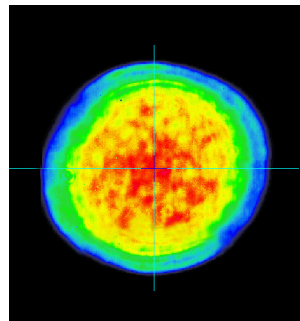
Pulse 1



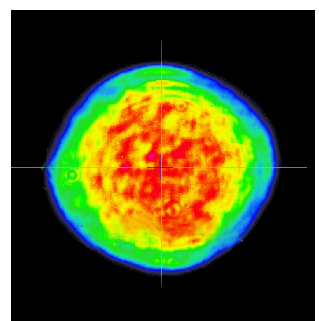
Pulse 2



Pulse 3



Pulse 4



Near Field 200 mJ @ 532 nm, 15 Hz

REVA - 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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SPECIFICATIONS

	EVT00070	EVT00145	EVT00200
Wavelength (nm)	532		
Repetition rate (Hz)	15		
Energy per pulse (mJ) ⁽¹⁾	60	125	175
Pulse duration (ns) ⁽²⁾	≤ 12		
Near field nominal beam diameter (mm)	5	6.35	
Beam divergence (mrad) ⁽³⁾	< 4		
Shot to shot pointing stability (μrad)	< 100		
Far field beam overlap (μrad)	± 300		
Near field beam overlap (μm)	± 300		
Polarization	2 crossed polarization		
Spectral purity (%)	> 98		
Near field beam profile	flat-top, uniform		

(1) Quadruple pulse system: energy given for each pulse

(2) FWHM at nominal energy

(3) Full angle containing 86.5 % energy

Temperatures	Operating	18°C - 28°C
	Storage	5°C - 50°C
Power requirements	2 x 100-240 VAC, 50/60 Hz, single phase	
Flashlamps warranty	100 million shots ⁽¹⁾	
Cooling	Water to air	
Triggers	5 V nominal into 50 Ω or high impedance loads, user selectable	
Laser head operation	Can operate in any orientation	
Laser head sealing	IP 66 sealed Do not submerge in water	
Power supply sealing	IP 21 sealed	
Laser vibration	Complies with MIL-STD-810	
Cable length (m)	3 ⁽²⁾	
Weight (kg)	Laser head	23
	Integrated cooling & electronics	18 each

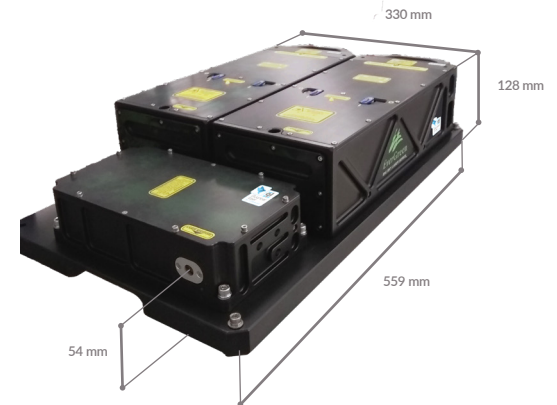
(1) 80% of energy, or 1 year, whichever comes first

(2) Other lengths up to 10 m on request



Laser control panel

Laser head



2 Integrated coolings & electronics



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