

# NEW EverGreen HP

High repetition rate dual pulse laser

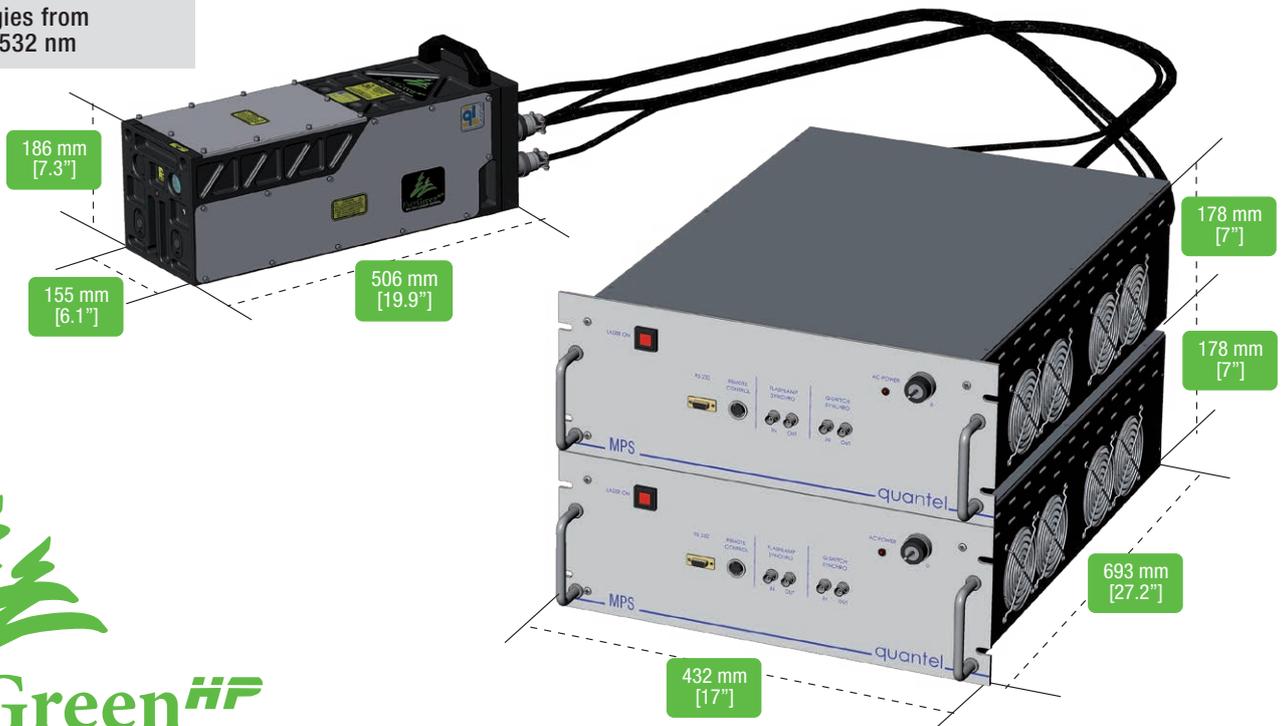
## State of the art lasers for PIV



- Double pulse 532 nm flashlamp pumped pulsed solid state lasers
- Sealed head design for operation in various environments
- Specified beam overlap
- Fixed repetition rate models from 100 to 200 Hz
- With pulse energies from 100 to 50 mJ @ 532 nm

**Laser head** 11.1 kg [24.5 lbs]

**Power supply** 2 x 27.5 kg [2 x 60.5 lbs]



# EverGreen<sup>HP</sup>

# Specifications

Model	EHP100	EHP150	EHP200
<b>REPETITION RATE [Hz]</b>	100	150	200
<b>PULSE ENERGY [mJ]</b>			
532 nm	100	75	50
<b>PULSE WIDTH [ns]</b>			
532 nm	< 15		
<b>ENERGY STABILITY [% rms]</b>			
532 nm	< 2		
<b>BEAM DIAMETER [mm]</b>			
532 nm	< 6		
<b>DIVERGENCE [mrad]</b>			
	< 6		

<b>TRANSVERSE MODE</b>	Multiple
<b>RESONATOR CONFIGURATION</b>	Stable
<b>POLARIZATION DIRECTION</b>	
532 nm	H
<b>SPECTRAL PURITY</b>	
532 nm	> 98 %
<b>MINIMUM PULSE DELAY [ns]</b>	300

<b>POWER</b>	2 x 3 Phase 200 - 240 VAC, 50/60 Hz
<b>COMPUTER INTERFACE</b>	RS232
<b>OPERATING TEMPERATURE [°C]</b>	10 - 30
<b>STORAGE TEMPERATURE [°C]</b>	5 - 50
<b>CABLE LENGTH</b>	3 m [10 ft]

Chiller	
<b>DIMENSIONS</b>	544 x 706 x 810 mm [21.4 x 27.8 x 31.9 inch]
<b>WEIGHT</b>	123 kg [270 lbs]
<b>POWER</b>	208/230 VAC, single phase, 18 A
<b>HOSES</b>	10 m [33 ft]

Water-to-water cooling available as an option



# NEW EverGreen HP

Low repetition rate dual pulse laser

## State of the art lasers for PIV

- Double pulse 532 nm flashlamp-pumped pulsed solid state lasers
- Sealed head design for operation in harsh environments
- Specified beam overlap
- Fixed repetition rate models from 10 to 30 Hz
- With pulse energies up to 400 mJ @ 532 nm



**Laser head** 11.1 kg [24.5 lbs]



**Power supply** 2 x 18 kg [2 x 39.5 lbs]



# Specifications

Model	EHP10	EHP15	EHP30
<b>REPETITION RATE [Hz]</b>	10	15	30
<b>PULSE ENERGY [mJ]</b>			
532 nm	400	350	300
<b>PULSE WIDTH [ns]</b>			
532 nm		< 10	
<b>ENERGY STABILITY [% rms]</b>			
532 nm		< 2	
<b>BEAM DIAMETER [mm]</b>			
532 nm		< 10	
<b>DIVERGENCE [mrad]</b>			
		< 4	
<b>FAR FIELD BEAM OVERLAP [μrad]</b>			
		± 100	
<b>NEAR FIELD BEAM OVERLAP [μm]</b>			
		± 100	

<b>TRANSVERSE MODE</b>	Multiple
<b>RESONATOR CONFIGURATION</b>	Stable
<b>POLARIZATION DIRECTION</b>	
532 nm	Horizontal
<b>SPECTRAL PURITY</b>	
532 nm	> 98 %
<b>MINIMUM PULSE DELAY [ns]</b>	300

<b>POWER</b>	2 x 200 - 240 VAC, 50/60 Hz, < 10 A
<b>COMPUTER INTERFACE</b>	RS232
<b>OPERATING TEMPERATURE [°C]</b>	10 - 30
<b>STORAGE TEMPERATURE [°C]</b>	5 - 50
<b>CABLE LENGTH</b>	3 m [10 ft]

Models with 266 nm operation available on request

11/20 EHP-LR-REV C - Lumibird reserves the right to modify the specifications without prior notice. Design: Pousssières d'Étoiles

CE



Lumibird has locations across the globe that are available to provide support for any product, service or inquiry. Visit [www.lumibird.com](http://www.lumibird.com) to connect with any of our global sites.

