

Compact TEA CO₂ Laser

The Most Reliable TEA CO₂ Laser

Overview

Packaged into a single ergonomical enclosure with a corona pre-ionizer and a solid state switch pulsar, delivering in excess of 8 billion pulses ensuring minimal down time.

Corona Pre-Ionizer

Improved stability and pulse jitter by implementation of the corona pre-ionization

Maintainability

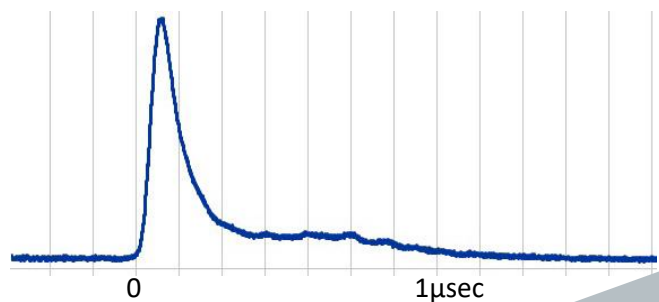
Simple maintenance and service by virtue of easily removable enclosure panels.

Solid State Switch

The all solid state switched pulse forming network provides extreme reliability and service life

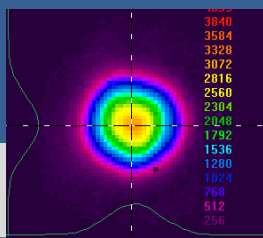
Reliability

The new design is virtually maintenance free demonstrating 8 billion consistent pulses.



Aerospace Industry Support Initiative

an initiative of **the dti**



Model	10/70	20/80	30/75	60/90	100/100	500/100
Wavelength (µm)	9.2 -10.8					
Repetition rate (Hz)	10	20	30	60	100	500
Pulse energy (J)	7	4	2.5	1.5	1	0.2
Average output Power (W)	70	80	75	90	100	100
Beam size (W x H)(mm)	30 x 30	25 x 25	20 x 20	20 x 20	15 x 15	10 x 10
Pulse Width - FWHM (ns)	50 -100					
Output stability (1 sigma)	< 4%					
Pulse timing jitter (1 sigma)	< 10ns					
Dimensions (L x W x H)(mm)	1150 x 650 x 600					
Weight (kg)	~300					
Gas Load Lifetimes	>100 000 000 Pulses (With Catalyst)					
Electrical Voltage	110V, 208V, 230V (50/60Hz)					
Phase	Single Phase					
Pulse circuit	Solid State switch					
Pre ionization	Corona Pre-Ionized					
Cooling requirements	Temperature stabilized, closed loop chilled water supply with temperature at 18°C, with a heat removal capacity of 3kW.					
Options	Agile wavelength tuner, manual wavelength tuner and gas regeneration catalysts					

Contact us

Email: lasers@par.com
 Webpage: www.par.com

Corporate
 Tel: +1.651.484.7261
 Fax: +1.651.483.2689

International
 Tel: +27.12.548.0370
 Fax: +27.12.548.0447

Applications

- ✓ Non-Destructive Testing (NDT)
- ✓ Wire Stripping
- ✓ Light Detection and Ranging (LIDAR)
- ✓ Extreme Ultraviolet (EUV) Generation
- ✓ Material Surface Treatment
- ✓ THz Imaging
- ✓ Mould / Die Cleaning
- ✓ Surface De-Coating
- ✓ Paint Removal



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