

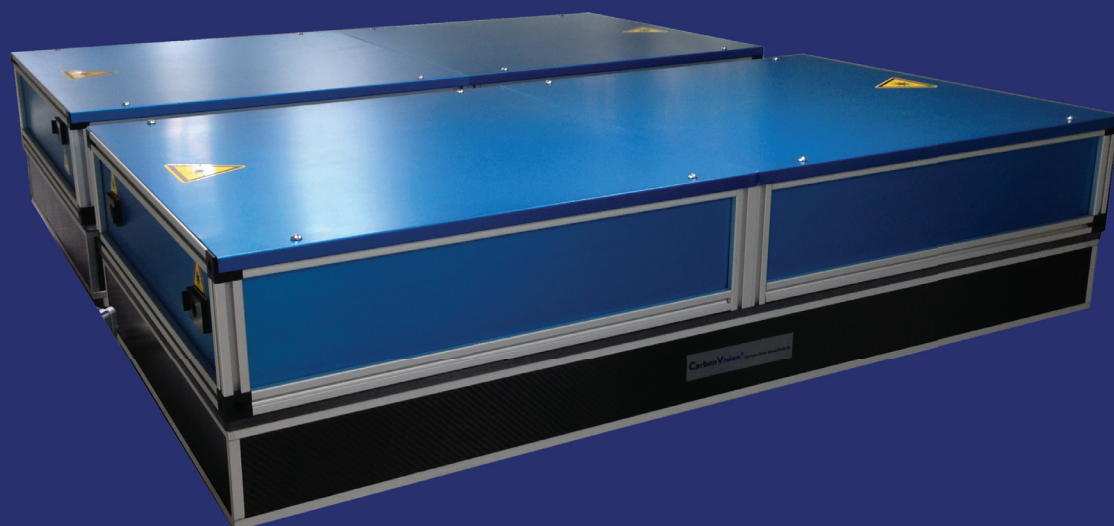


EOS Space Systems provides space debris and satellite management solutions, with the design, manufacture and installation of specialised observatories for optical and laser tracking.

Our Australian designs include high accuracy beam director telescopes, laser systems, imaging systems and pico-second time interval systems. We develop and integrate fully autonomous software control for space sensor networks and provide space situational awareness services.

Satellite Laser Ranging

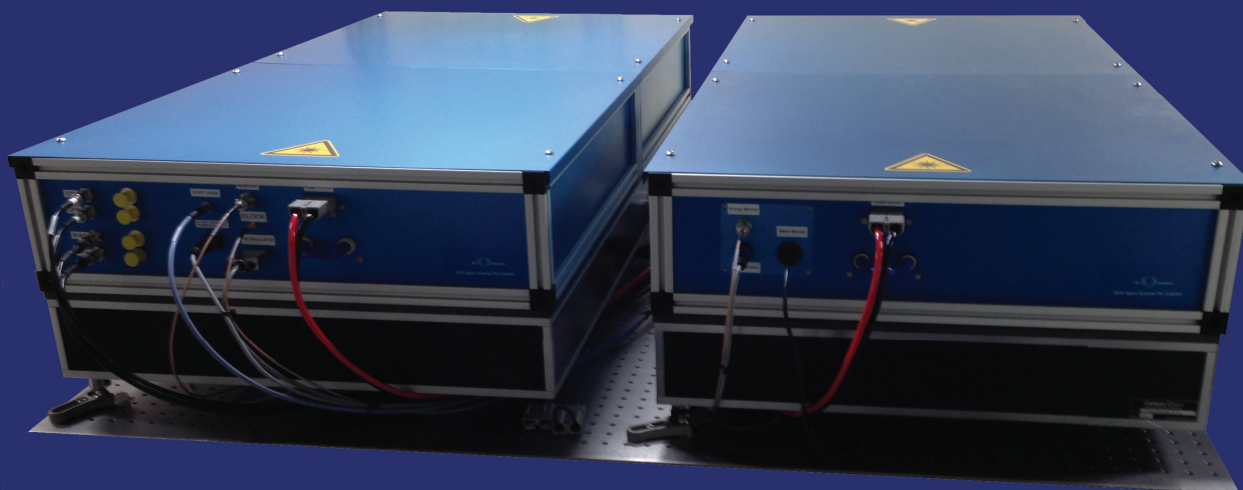
PICOSECOND PULSED LASER



532nm Picosecond Pulsed Laser for Satellite Laser Ranging Applications.

FEATURES

- Diode pumped and fully automated pico-second (ps) pulse width laser system for satellite laser ranging applications.
- Mode-locked oscillator with the passive mode-locker (developed in-house).
- Regenerative amplifier with a standing wave cavity offering excellent stability.
- Power amplifier and a high efficiency second harmonic generator.
- Modular design offers flexibility and can be reconfigured to 1 kHz to support kilo-Hertz ranging with module-1 consisting of an oscillator and regenerative amplifier.
- The system can also be upgraded to eye-safe wavelength @ 1.57nm by implementing an optical parametric generator and an optical parametric amplifier.
- The system has remote control and monitoring capabilities and has been in 24/7 unmanned operation with excellent performance and reliability.



SPECIFICATIONS

Wavelength (nm)	532
Pulse repetition rate (Hz)	10 - 100
Output energy (mJ)	15 (nominal) 20 (maximum)
Energy stability	$\pm 2.5\%$
Pulse width (ns)	10 - 20
Divergence (mR)	≤ 0.75 (full angle)
Beam quality (M^2)	≤ 2
Beam pointing stability (mR)	≤ 0.25

COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV GL
= ISO 9001 =

Please contact us for detailed specifications, custom configurations, pricing and delivery information.

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