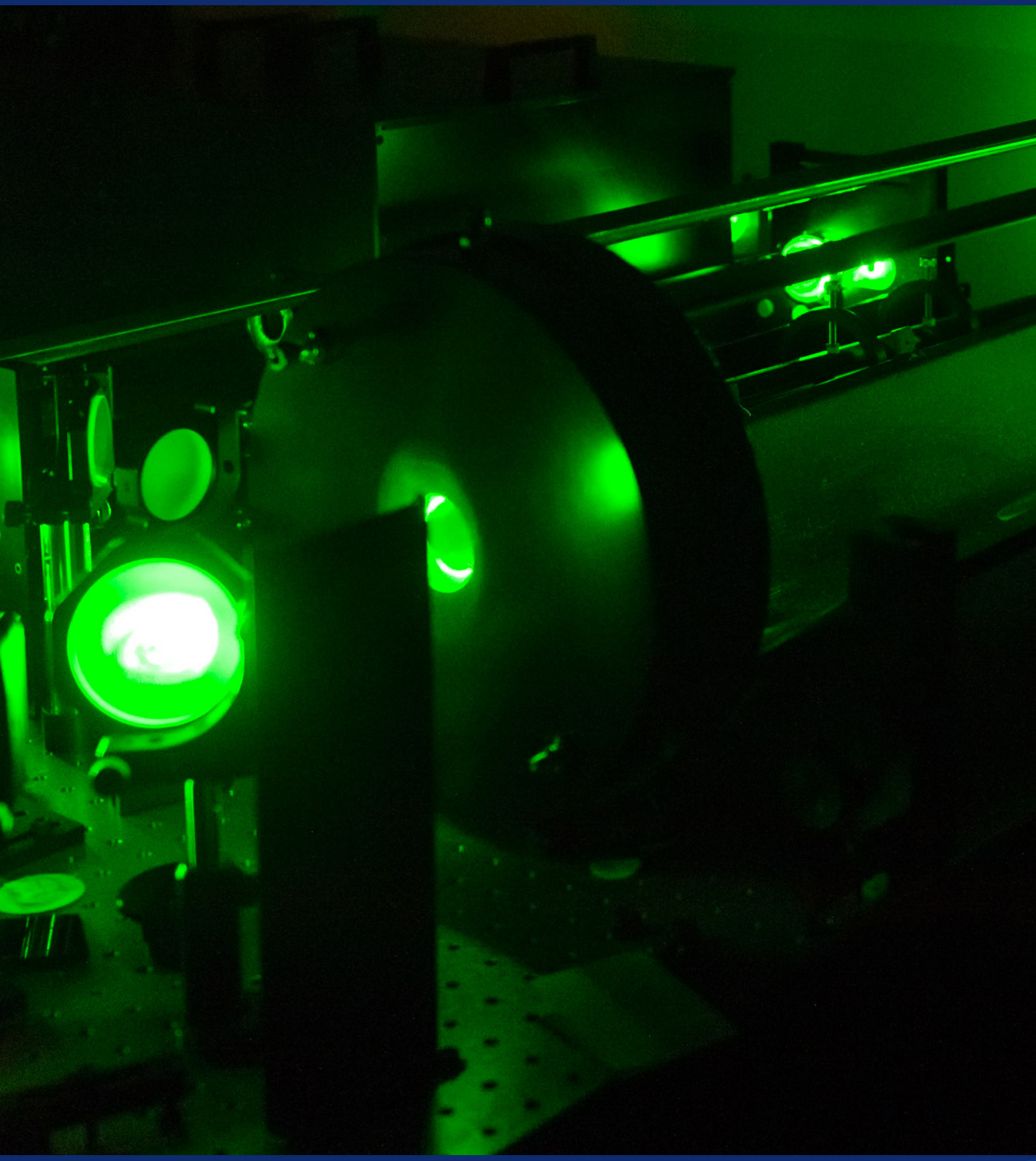
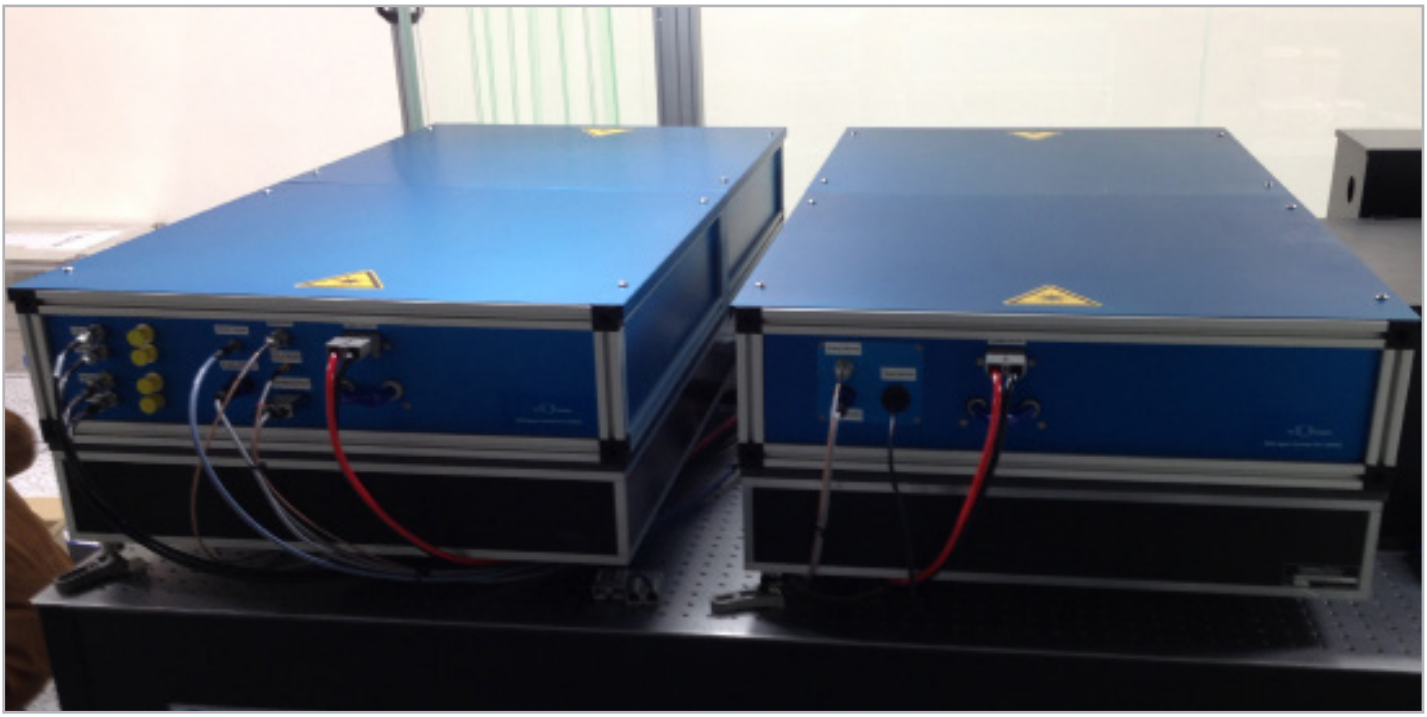
PICOSECOND PULSED LASER



PICOSECOND PULSED LASER

The 532nm picosecond pulsed laser used for satellite laser ranging



FEATURES

- Diode pumped and fully automated picosecond (ps) pulse width laser system for satellite laser ranging applications
- Mode-locked oscillator with the passive mode-locker (built 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 1kHz 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	± 2.5%
Pulse width (ns)	10 - 20
Divergence (mR)	≤ 0.75 (full angle)
Beam quality (M^2)	≤ 2
Beam pointing stability (mR)	≤ 0.25

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