

2 J 50 Hz 1047 nm Nd:YLF laser

Features:

- Compact Q-switched DPSS laser
- Stable single-frequency operation
- Up to 50 Hz pulse repetition rate
- Operation at 1053 nm optional
- Frequency-doubling optional
- Simple and robust

Wavelength	1047 nm (1053 nm optional)
Output energy	Up to 2 J
Repetition rate	Up to 50 Hz
Pulse duration	3 ns
Beam diameter	15 mm
Beam divergence	0.1 mrad (1.3 x DL)
Laser Head Size	1050×320×205 mm

Applications:

- Remote sensing
- Material processing
- Spectroscopy
- OPCPA pumping

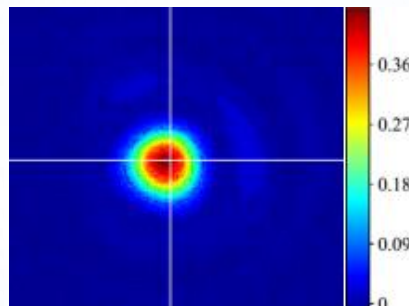


Laser Design:

- Regenerative Amplifier + Two-Stage Power Amplifier
- All-diode-pumped Laser Design
- SBS mirror to provide near-diffraction-limited beam quality



Near Field Beam Profile (Flat-top)



Far Field (1.3 × DL)



Pulse Shape and Duration