B.I. Stepanov Institute of Physics
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DPLE GROUP

Customized laser solutions & precise optics

Diode-Pumped Laser Engineering group
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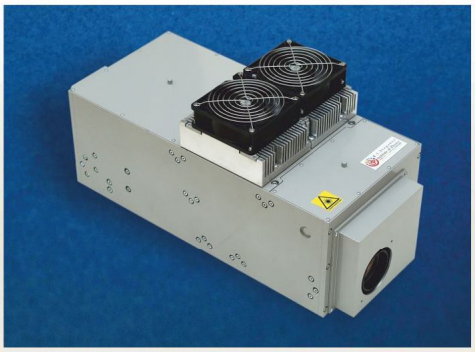
Diode-Pumped Nd:YAG Lasers

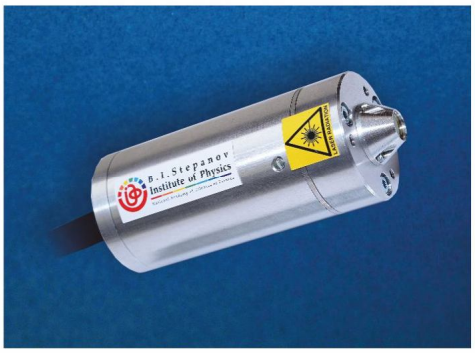


High-Power Lasers for LIDAR Systems

Wavelengths – 1064 nm, 532 nm, 355 nm
Pulse energies – 400 mJ (1064 nm), 230 mJ (532 nm), 80 mJ (355 nm)
Repetition rate – up to 30 Hz
Pulse duration – 8...11 ns (1064 nm)
Divergence – <0.15 mrad (10x telescope)

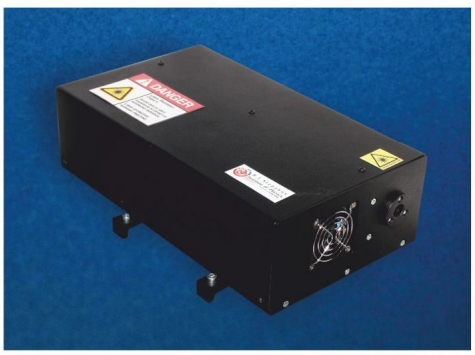
Lasers with Harmonics

Wavelengths – 1064 nm, 532 nm, 355 nm, 266 nm
Pulse energies – 180 mJ (1064 nm), 100 mJ (532 nm), 45 mJ (355 nm), 20 mJ (266 nm)
Repetition rate – up to 30 Hz
Pulse duration – 7...10 ns (1064 nm)



High-Repetition-Rate Lasers

Wavelength – 1064 nm
Pulse energy – up to 50 mJ
Repetition rate – up to 100 Hz
Pulse duration – 7...10 ns



Portable Double Pulse Lasers for LIBS Applications

Wavelength – 1064 nm
Pulse energy – up to 100 mJ (50 mJ for channel)
Repetition rate – 1...10 Hz
Pulse duration – 8...12 ns
Pulse-to-pulse delay – 1...100 μs

UV Lasers

Wavelength – 266 nm
Pulse energy – up to 3 mJ
Repetition rate – up to 15 Hz
Pulse duration – <8 ns
Integrated 24 V power supply

Compact Lasers with Passive Q-switching

Wavelength – 1064 nm
Pulse energy – up to 65 mJ
Repetition rate – up to 30 Hz
Pulse duration – 3...5 ns
Without forced cooling