

Picosecond Pulse Diode Laser



Overview

This article explains the two main types of picosecond diode lasers: mode-locked and gain-switched lasers. It details the operating principle of each method for generating ultrashort pulses. For mode-locked diode lasers, it describes how a circulating pulse in a short resonator leads to. High-performance picosecond diode laser heads delivering clean, stable excitation across a wide spectral range for time-resolved techniques in life science, materials science, quantum optics, and metrology. 375 – 1990 nm Detail explanations and measurements conditions for the listed specifications. A picosecond laser is a laser which emits optical pulses with a duration between 1 ps and (usually) some tens of picoseconds. Which Laser Are You Looking For?

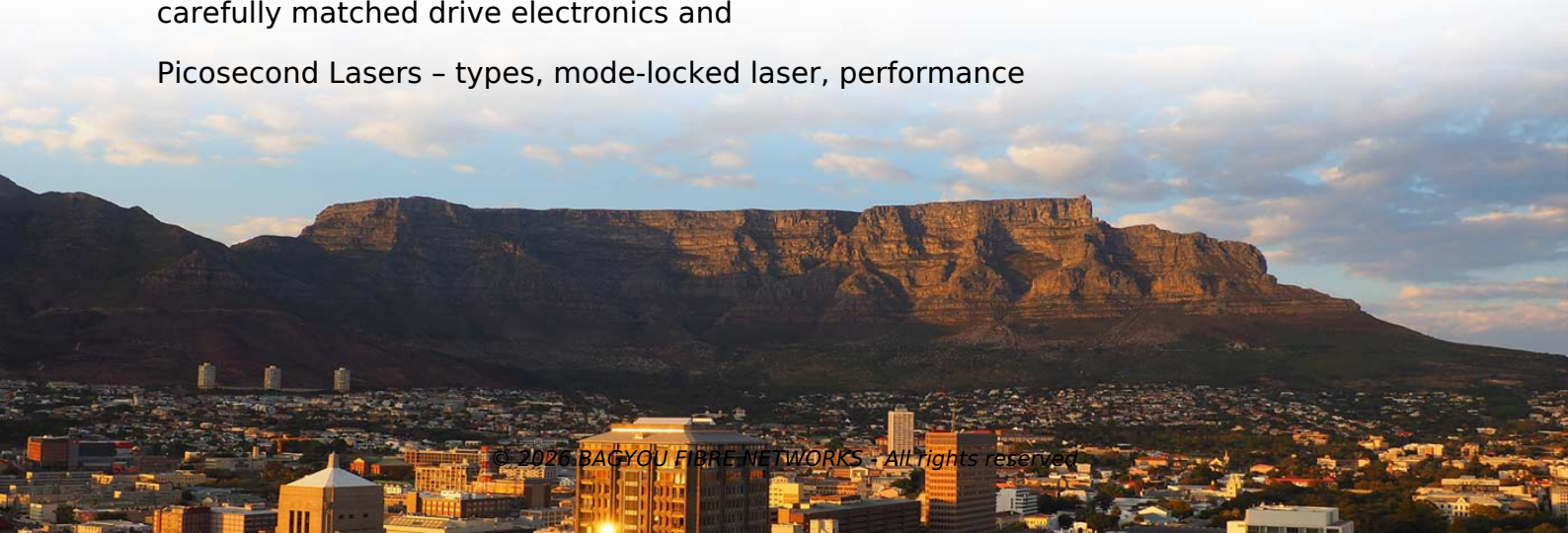
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Picosecond Lasers – types, mode-locked laser, performance



Medical ApplicationsLaser MicroscopyOPO

PumpingMeasurementsTelecommunicationsPicosecond laser pulses are useful for a very wide range of measurements. For example, distance measurements with LIDAR, e.g. based on time-of-flight measurements, can be performed. Picosecond pulses are also often used in pump-probe measurements on timescales of multiple picoseconds to nanoseconds. See more on [rp-photonics ALPHALAS](#)

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