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?

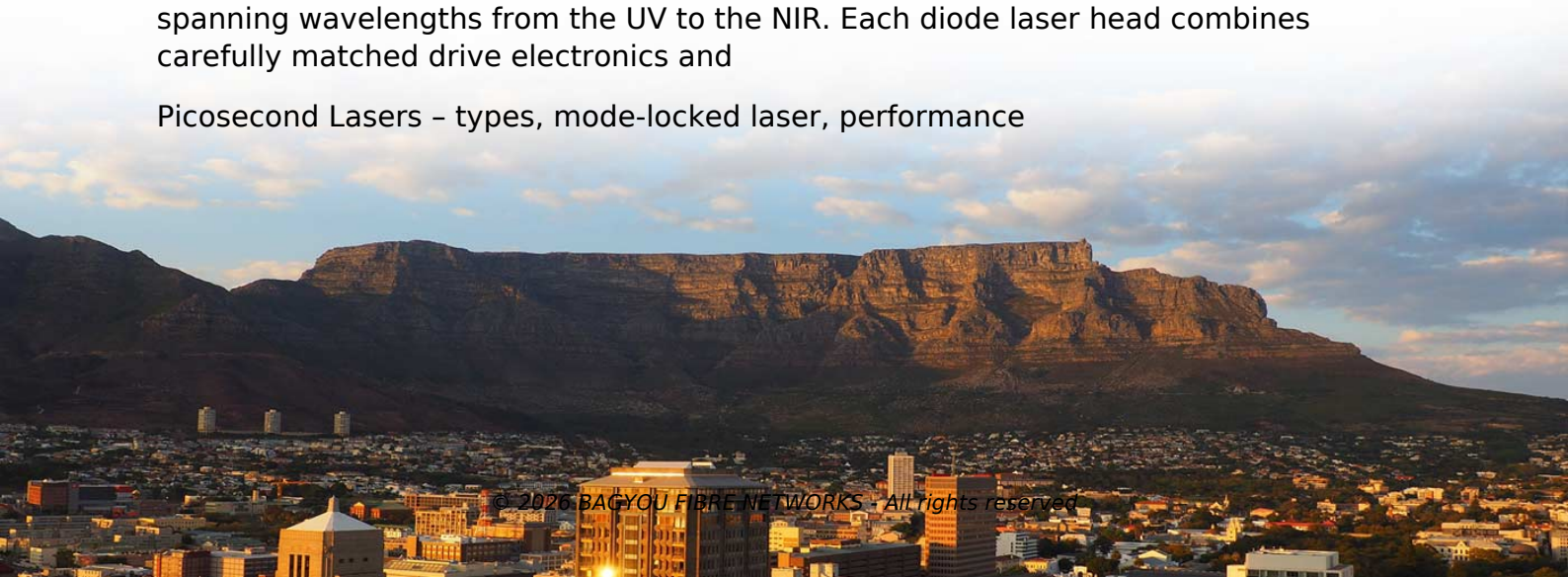
202 results found.

Article Content

LDH Series: Picosecond Laser Diode Heads | PicoQuant

The LDH Series offers a broad portfolio of picosecond pulsed diode laser heads spanning wavelengths from the UV to the NIR. Each diode laser head combines carefully matched drive electronics and

Picosecond Lasers – types, mode-locked laser, performance



© 2026 BAGYOU FIBRE NETWORKS · All rights reserved

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 measurementson timescales of multiple picoseconds to nanoseconds.See more on rp-photonics ALPHALAS

Picosecond Diode Lasers with Driver: PICOPOWER™

Laser pulses as short as 12 ps and more than 2 W peak power for specific wavelengths. Exchangeable laser heads. Standard driver models with 20, 50 and

Pulsed Lasers & LEDs | Picosecond Sources | PicoQuant

Discover Pulsed Lasers and LEDs delivering picosecond precision, reliable performance, and flexible operation for advanced research and OEM applications.

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

Contact Us

Continue your research online:

Website: https://bagyou.es
Technical inquiry: https://bagyou.es/project-enquiry.html

This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

© 2026 BAGYOU FIBRE NETWORKS - All rights reserved