

LDM-PS/NS-XXX-GHz-Burst

Multichannel ultrashort pulse laser source **with GHz repetition rate and flexible pulse pattern capability**



Features

- Adjustable pulse duration: from 30ps to 100ns (depending on the LD used)
- Mutually non-coherent pulses
- Close to transform limit spectrum width
- User defined wavelength for each output from 365nm to 1550nm (defined by available LDs)
- Pulse repetition rate up to 1GHz
- Arbitrary pulse profile for pulses longer than 1ns
- Up to two independent optical outputs, different wavelengths are possible
- User selectable pulse burst modes
- External triggering by LVDS trigger signal
- LVDS synchronization output
- USB and UART control interfaces

Applications

- Laser source for quantum communications
- Biomedicine
- Spectroscopy of biological objects
- Burst and high rep rate seed source for fiber amplifiers for material processing

Example of pulses and pulse patterns



35 ps pulse at wavelength of 1310 nm



Pairs of noncoherent picosecond pulses with 1 ns spacing