

## 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