LDM-PS/NS-XXX-GHz-Burst

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



Features

- Adjustable pulse duration: from 30 ps to 100 ns (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 that 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



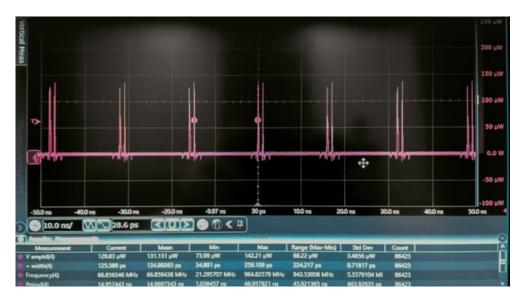
Applications

- · 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



 $35\,\mathrm{ps}$ pulse at wavelength of $1310\,\mathrm{nm}$



Pairs of noncoherent picosecond pulses with 1 ns spacing