

General Description

The Xiton Photonics SYNCHRO series allows to synchronize the pulses of any two Xiton Photonics Q-switched laser sources with high repetition rates at an remarkable precision. While the technique of synchronizing laser pulses at low repetition rates (10-50 Hz) is well known for years using electro optical modulators (EOM) we are offering the first commercial system which can do so a thousand times faster. The ultrastable trigger setup allows to sweep one pulse across the other in steps of 250 ps with a temporal jitter of < 500 ps.

One possible application for the SYNCHRO series could be Time Resolved

Partical Image Velocimetry (TR-PIV) with a surpassing time resolution.

Applications

- Fundamental research
- Spectroscopy
- LIDAR
- PIV
- LIF

Features

- Pulse repetition rate 0.01 - 50 kHz
- Time accuracy < 250 ps
- Programable delay 250 ps – 100 µs
- Jitter < 500 ps
- RS-232 interface



Visible and/or invisible laser radiation. Avoid eye or skin exposure to direct or scattered radiation.
Class 4 laser (IEC-825)