



PERSBERICHT

Betreft: Why Genia ps fiber based lasers for OCT.

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The Genia synchronised pulsed lasers are very interesting for OCT because you get:

1 ...Full control over the sweep parameters:

- ✓ Control over the tuning speed (up to 10 Mwavelengths per second).
- ✓ Control over the bandwidth (for example, 20, 30, 80, 100, 120 nm); can control resolution, over speed.
- ✓ Control over the sweep speed (1 KHz, 5 kHz, 10kHz, 100kHz...) depending on the number of points.
- ✓ Control over the number of points (in order to increase speed).
- ✓ Control over the coherence length by controlling the pulse width (allows to see deeper).
- ✓ Can perform arbitrary sweeps to test different sampling schemes.

2 ...Linear scan in optical frequencies or k-space. No need for linearization of the data leading to faster processing. Can perform the FFT directly with the raw data. This means improved speed and higher SNR.

3 ...High power and full control over the power.

4 ...Polarized output for polarization dependant OCT.

5 ...One laser to do combined FLIM and OCT and multiphoton imaging.

Met vriendelijke groet,
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