DIEGO SERIES

Highly Flexible Infrared Femtosecond Fiber Laser

Key Features:

- Adjustable Pulse Repetition Frequency over One Decade From 10 MHz to 100 MHz, Burst Mode for >100MHz
- Several Wavelengths Available in the IR
- Pulse Duration from 350 fs
- Multistage Fiber Amplifier up to 30 W Average Power Available, Depending on Pulse Repetition Frequency
- Compact, Turn-key Master/Slave System

DIEGO product range integrates an innovative electronical pulse generation system which provide ultrafast pulse duration < 1 ps. Thank to this technology, pulse repetition rate is flexible and adjustable.
DIEGO systems fits perfectly any industrial and scientific application that requires master/slave synchronization.

Typical Applications:

- → Seed for High Power Lasers
- → Laser Research
- → Spectroscopy
- → Bio-photonics
- → Two Photon Imaging
- → Quantum Technology

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Specifications

Central Wavelength	**(1)**	1030 nm, 1064 nm or 1550 nm, 1560 nm
Max. Avg. Output Power	**(2)**	30 W
Max Pulse Energy	**(3)**	> 1 µJ
Power Stability	**(4)**	< 5 % RMS
Pulse Duration		from 350 fs to 20 ps
Timing Jitter	**(5)**	< 3 ps RMS
Repetition Rate		10 MHz to 100 MHz, Burst Mode for Rep. Rate > 100 MHz
Polarization		Linear, > 20 dB
Ext. Synchronization		Master/Slave
Beam Quality		Free-space Output - M^2 < 1,3
Cooling System		Air Cooled
Laser Manager Software		Included (Windows® 7/8/10/11 required)
PC Interface		RS 232/USB or Ethernet

(1) Other wavelengths available upon request

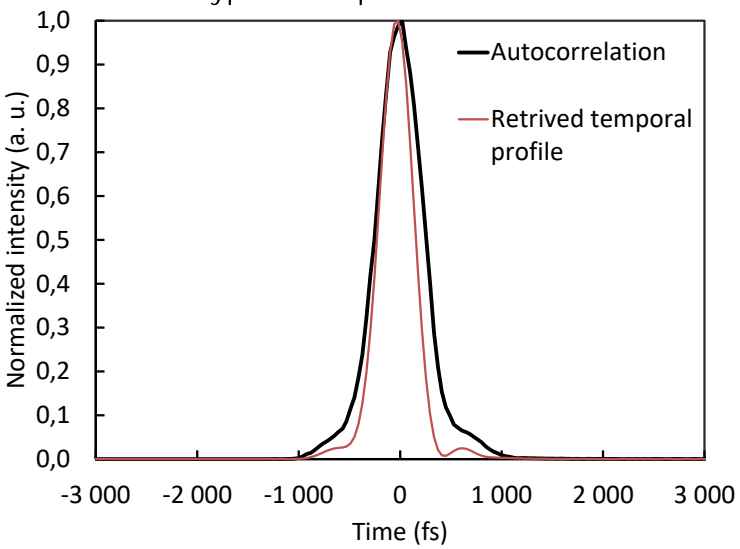
(2) Depends on pulse repetition rate

(3) Depends on pulse repetition frequency

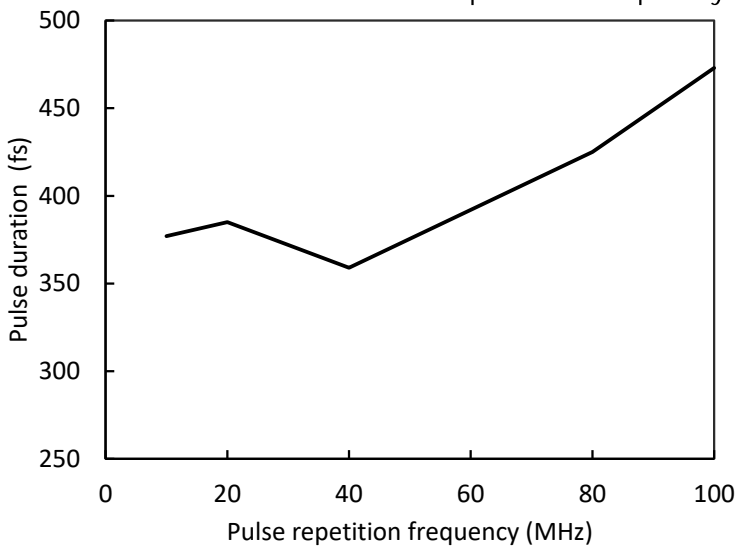
(4) Depends on test duration and stability of ambient temperature

(5) Depends on clock or sync signal

Typical Temporal Pulse Profile



Pulse Duration vs. Pulse Repetition Frequency



All information in this document is subject to change without prior notice. – Updated 01/2023

Don't hesitate to contact us for more information:

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