

GO pico



1030 nm PICOSECOND FIBER OSCILLATOR

GO pico is a mode-locked all-normal-dispersion (ANDi) fiber oscillator with mode-locking obtained by nonlinear polarization rotation. Robust design guarantees excellent stability and maintenance free operation. It makes an excellent choice as a seed source for single amplifiers and whole front-ends of DPSSLs.

KEY SPECIFICATIONS

- Wavelength 1030 nm
- Output power >30 mW
- Repetition rate 30-100 MHz
- Compact design
- Stable and reliable seed source

APPLICATIONS

- Biochemical applications
- Spectroscopy
- Seed laser for laser systems used in:
 - drilling and cutting of composites, ceramics, plastics, metals, and alloys
 - surface micro structuring
 - pump source for mid-IR optical parametric amplifiers (OPAs)
 - high harmonics generation
 - LIDT testing

OPTION FEATURES

- GO femto version ($\lambda_c = 1030 \text{ nm}$, $\tau < 100 \text{ fs}$, $\Delta\lambda = 50 \text{ nm}$, $f = 50 \text{ MHz}$, $E_p > 4 \text{ nJ}$)
- GO 2micro version ($\lambda_c = 2072 \text{ nm}$, $\Delta\lambda = 10 \text{ nm}$, $f = 22 \text{ MHz}$, $E_p > 2.7 \text{ nJ}$)
- Built-in photodiode with SMA connector for external synchronization
- Frequency stabilization



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Czech Academy
of Sciences

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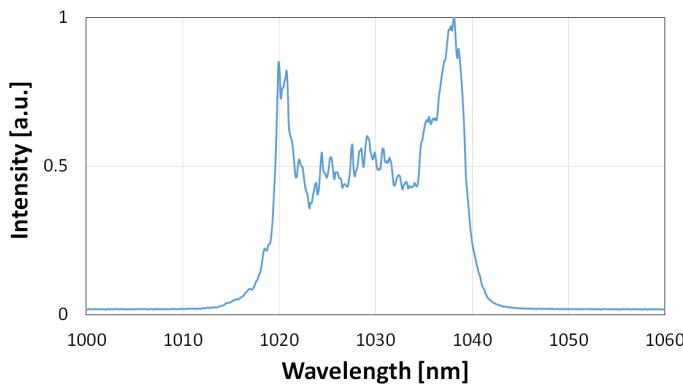


FIG.1 TYPICAL GO PICO SPECTRUM

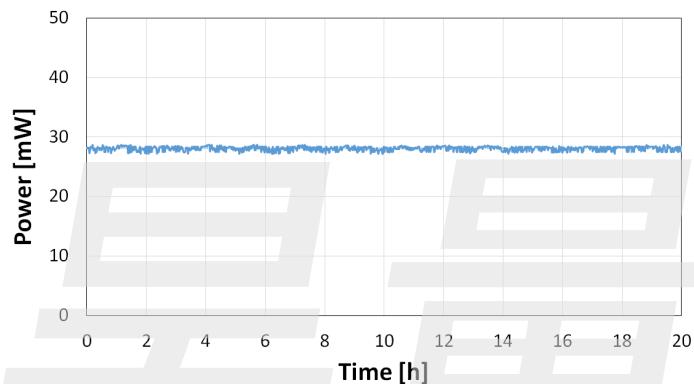


FIG.2 POWER STABILITY
(<1.3 % RMS OVER 20 HOURS AT AMBIENT TEMPERATURE OF 23°C)

Specification	GOpico
Center wavelength	1030 nm
Average power	>30 mW
Power stability	<1.5 % RMS
Pulse energy	>1 nJ
Bandwidth	>18 nm
Pulse length	<3 ps (sech^2)
Repetition rate	37 MHz
Output	Fiber-coupled, SC/APC*

*random, SM nonPM fiber; linear, PM fiber on request

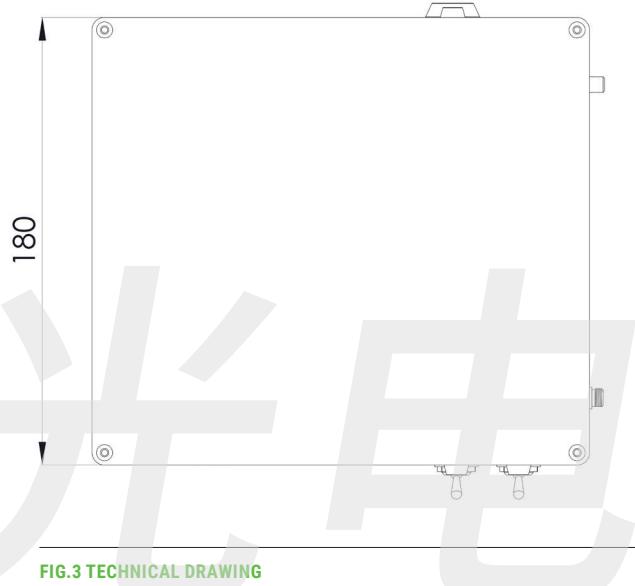


FIG.3 TECHNICAL DRAWING

Operating requirements

Operating voltage	5 VDC, ± 12 VDC
Power consumption	<36 W
Operating temperature	23 ± 3°C
Relative humidity	20-60 % (non-condensing)
Laser head size	200x180x73 mm ³



ORDERING INFORMATION

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