

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



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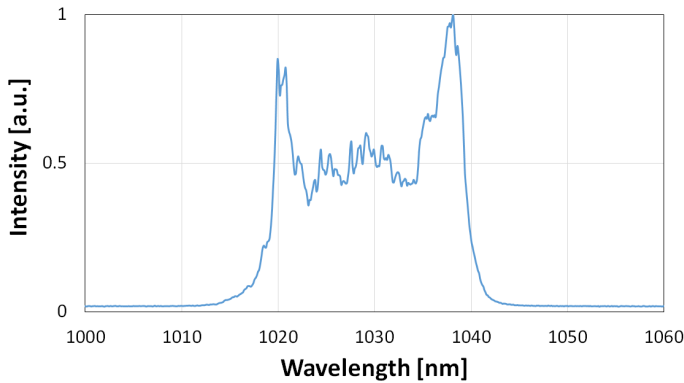


FIG.1 TYPICAL GO PICO SPECTRUM

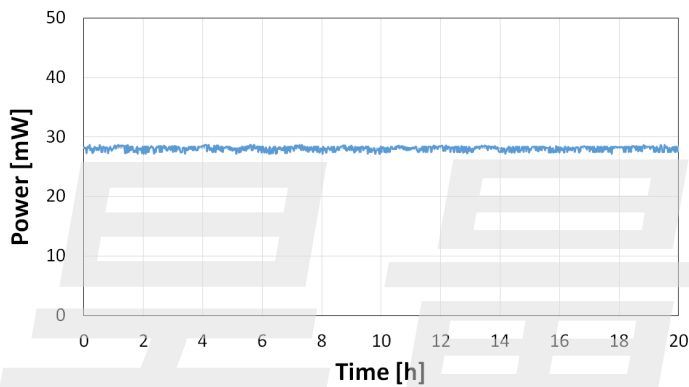


FIG.2 POWER STABILITY
($<1.3\%$ RMS OVER 20 HOURS AT AMBIENT TEMPERATURE OF 23°C)

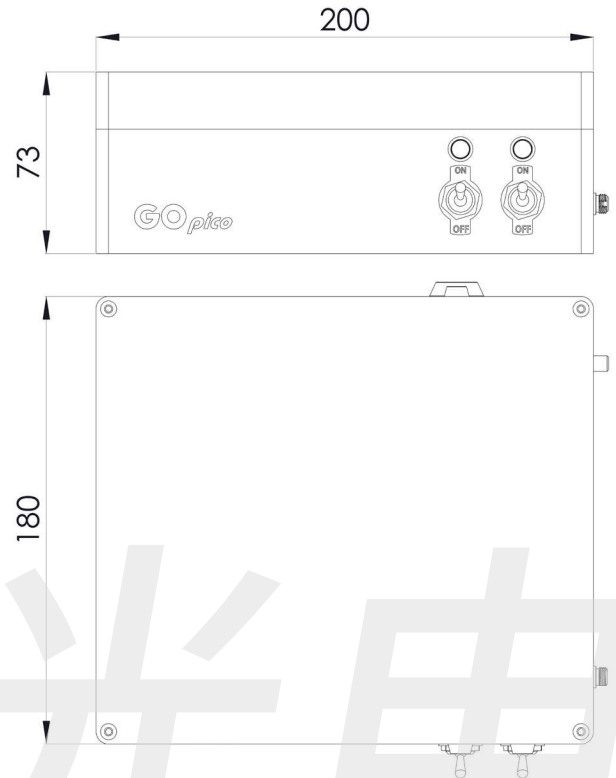


FIG.3 TECHNICAL DRAWING

Specification	GO pico
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

Operating requirements

Operating voltage	5 VDC, ± 12 VDC
Power consumption	<36 W
Operating temperature	$23 \pm 3^{\circ}\text{C}$
Relative humidity	20-60 % (non-condensing)
Laser head size	$200 \times 180 \times 73$ mm ³



ORDERING INFORMATION

xiaoming-gu@auniontech.com

HiLASE Centre

Institute of Physics ASCR, v.v.i.

Za Radnicí 828, 25241 Dolní Břežany, Czech Republic

上海昊量光电设备有限公司

上海市徐汇区漕宝路86号,

光大会展中心F座3楼, 200235