



### Buccaneer SHG Fiber Laser

- 780 nm wavelength
- 0.8 nJ pulse energy
- Small footprint
- Turn-key operation
- Highly stable



Buccaneer SHG Er-doped fiber laser system

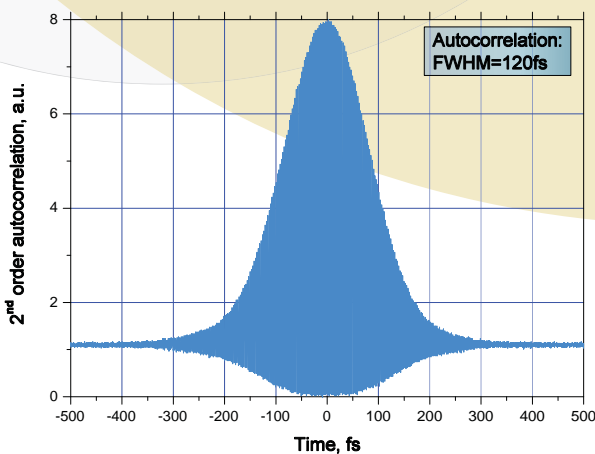
#### Product overview

Second harmonic of the Er-doped fiber laser operates at wavelength of 780nm and in a number of applications can replace the powerful yet less reliable solid-state Ti:S lasers. Easy to use design, turn-key operation, small footprint greatly facilitate any research in which the laser is involved. Lack of laser experience is not a problem with the fiber lasers, only general electronics and light physics knowledge is required to work with the unit.

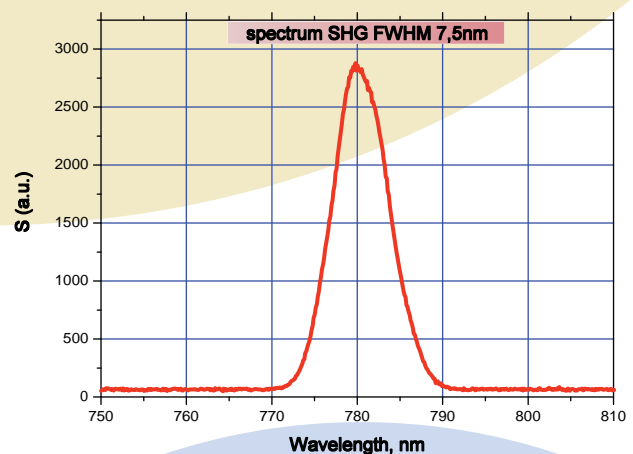
The Buccaneer SHG is also a perfect source for amplifier system seeding due to one-box compact design and lack of expensive pump laser as in case of Ti:S solid-state seed.

Possible application of the Buccaneer SHG fiber laser:

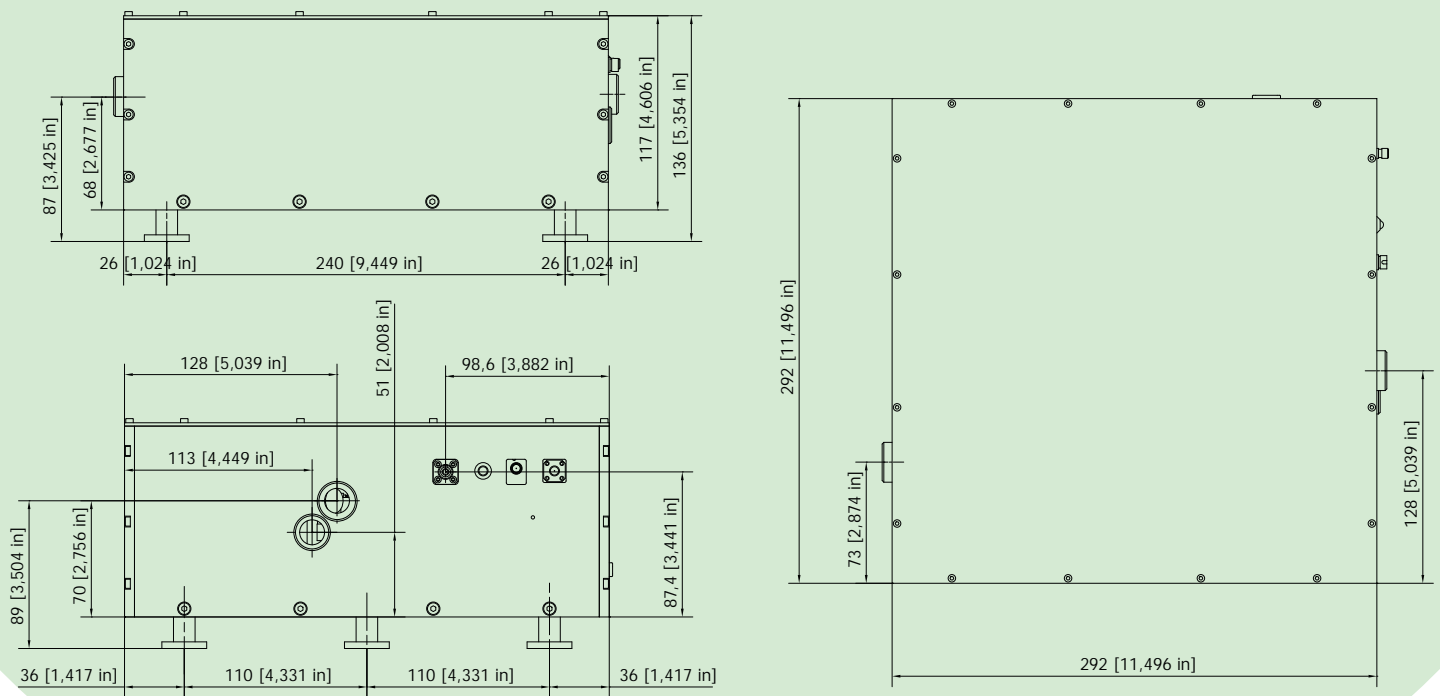
- Amplifier systems seeding
- Terahertz generation and detection
- Multi-photon microscopy
- Ultrafast spectroscopy
- Semiconductor device characterization
- Supercontinuum generation
- Optical coherence tomography
- Telecommunications



Buccaneer SHG autocorrelation trace



Typical spectrum of the Buccaneer SHG laser system



Buccaneer SHG (mm [inches])

## Buccaneer SHG technical specifications

	Buccaneer SHG
Pulse width (FWHM), fs	<120*
Wavelength, nm (fixed)	780±10
Average output power, mW	>40
Repetition rate, MHz	50**
Spectral width, nm	~7.5
Outputs:	<p>Power output: &gt;40 mW, 780 nm, TEM00, linearly polarized</p> <p>Service optical output: 1550 nm, FC/APC (~1 mW)</p> <p>RF SYNC Out: SMA connector</p> <p>Mode Lock Status: SMA connector (3.5/0V) and LED</p>
Operating temperature, °C	22±5
Warm-up time for rated accuracy, min	45
Electrical data	110...220 VAC, 50/60Hz
Dimensions	
Laser head, mm	292x292x117
Control unit, mm	230x200x130
Crystal oven control unit, mm	290x150x80

\* - <100fs pulse durations available upon request

\*\* - please indicate the necessary value when placing an order (from 25 to 80MHz).