

Key Features

- Adjustable Pout. up to 1 W
- Fixed or Program. pulse width: 100ps to 5ns
- Fixed or Program. rep. rate 100kHz to 100MHz
- High pulse E.R. > 30dB
- Internal or external trigger
- Pulse power stability 2% pk to pk
- USB interface

The CYBEL **LASO-BT-1064** series is a line sub-nanosecond and nanosecond benchtop pulsed lasers that deliver high power with adjustable pulse width and pulse repetition rate at 1064nm. This unit is designed to produce pulse width as short as 100ps and frequency repetition rate up to 100MHz from either an internal trigger or a user external trigger.

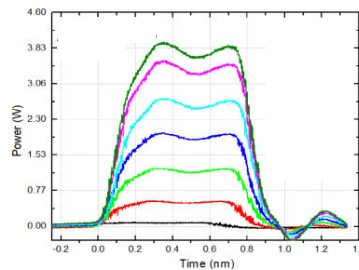
The **LASO-BT-1064** can deliver up to a 1W of output power at the 1064nm, and is also available at unique operating wavelengths from 1030nm to 1100nm. The laser has an air cooled all PM fiber design that features a high pulse extinction ratio, low pulse jitter and excellent output beam quality with an M2 of 1.1.

Applications

- Diffuse Optical Tomography
- Stimulated Emission Depletion Microscopy
- Quantum optics
- Biochemical analytics

The **LASO-BT-1064** laser comes in a turn key 19" 2U rack mount benchtop. Control of the different parameters which include output power, pulse width frequency rep rate and triggering mode are accessible from the front display panel or via the USB computer port.

Typical optical 800ps pulses at 80MHz for increase output power



- ◆ Wavelength: 1064 nm
- ◆ Peak Power increment from 0.25 to 4 W
- ◆ ONSR > 46 dB/0.1 nm

LASO SERIES

Also available at different standard wavelengths with same high performance and compact footprint:

- ◆ LASO-1030
- ◆ LASO-1550
- ◆ LASO-1950
- ◆ LASO-2050



LASO-BT-1064 Specifications

OPTICAL	Unit	Value	Comments
Wavelength	nm	1064	1050, and other wavelengths available
Mode of operation		CW or Pulsed	
Average output power	W	1	Higher output power available
Output peak power	W	10	@80 MHz for Pave. 1 W
Tunable Pulse Width	ns	0.1 - 5	
Tunable Repetition Rate	MHz	0.1 - 100	Internal or External Trigger
Output power tunability	%	5 - 100	
Optical polarization	dB	>18	
Beam quality (M ²)	M ²	1.05	
Output fiber length	m	1	3mm Jacket, Collimator options available
Monitor fiber length	m	1	3mm
ELECTRICAL			
Voltage	V	110-220	
Warm-up Time	min	20	
Power consumption	W	<50	@Pave max
Interface		USB	
Control mode		ACC	
GENERAL			
Dimensions	inch	19	2U-Rack-mount benchtop
Storage temperature	°C	-20 to 65	
Operating case temp.	°C	10 to 45	
Humidity	%	5 to 95	Non condensing

CUSTOMIZATION

The LASO-BT is a laser platform that can be customized to match customers' specific requirements. Please contact Cybel.

COMPLIANCE with Regulatory Requirements: These benchtop products are Class 4 lasers as designated by the Center for Device and Radiology Health (CDRH). As such they are intended only in integration into other equipment and do not comply with CDRH requirement. It is the customer responsibility for CDRH certification of the full system that incorporates this industrial laser.



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