

Key Features

- Output power 50mW to 5W
- Single frequency operation
- Linewidth <0.1nm
- Tunable 1900 to 2050nm
- Single mode, $M^2 \approx 1$
- Benchtop or OEM unit
- USB interface
- Operation Temp: 10 to 40°C
- Standard or All-PM version
- Efficient cooling system

The CYBEL TENOR-2000 is a wavelength tunable PM fiber laser with a broadband tuning range from 1900 to 2050nm and output power greater than 1W. The signal wavelength has a spectral width of 0.1nm over a continuous 150nm tunable wavelength range with an optical signal to noise ratio (OSNR) > 50dB. The isolated output power is delivered via a single mode PM fiber with polarization extinction ratio (PER) >20dB. The amplifier output power is scalable to more than 5W of single transverse mode

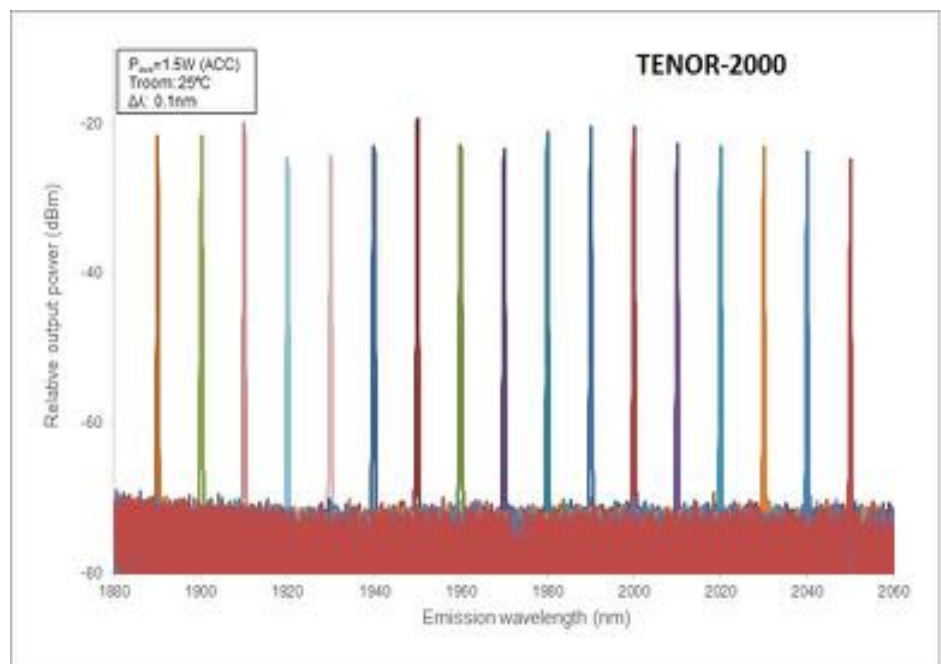
The TENOR-2000 model comes either 1in a compact OEM (200x150x43mm³) or a 19 inch benchtop unit designed with either a manual control of the wavelength tuning or via a USB computer interface This tunable laser is available in other custom wavelength range in the 2um window.

Applications

- Laser pumping
- High Energy Physics
- Testing and Measurement
- Plastic processing

Other 2um Amplifiers & Laser Products

- ◆ MISTRAL-Amp 5W- 2051nm
- ◆ SCIROCCO –Amp 5W-1950nm
- ◆ MAESTRO-Amp 20W-2000nm
- ◆ MAGNI Laser NL 10W-1950nm
- ◆ VULCAN Laser 10W-1950nm
- ◆ ASTROLIGHT Laser 5W 1950nm



Wavelength Sweep Across the Band

TENOR-2000 PM λ Tunable Laser

CW-Single mode- Single Frequency- Linearly Polarized Fiber laser			
OPTICAL	Unit	Value	Comments
Wavelength Tuning Range	nm	1900-2050nm	Other Tuning Wavelength band available
Average Output Power	W	1	From 1900nm to 2050nm: lower (100mW) or higher (5W) power available as an option
Output Signal Spectra Width	nm	< 0.1	
Polarization Ext. Ratio	dB	≥ 20	PM version
Signal to Noise Ratio (OSNR)	dB	50	For Pout>100mW
Polarization Extinction Ratio	dB	≥ 20	PM version
Beam Quality (M ²)		< 1.1	
Output Power stability	%	3	1950nm at 1W for 1hour
Output Fiber Length	m	1	SM or PM 1950- Armored cable, Optional
Connectors	m	FC/APC	Other connector available
ELECTRICAL			
Voltage	V	110-220	19" bench top unit
Warm-up Time	min	20	
Power Consumption	W	100	@Pout max=1W & 25C
Interface		USB	
Control Mode		ACC	Fiber Tap option available
GENERAL			
Dimensions	inch	19"	2U benchtop
Storage Temperature	°C	-20 to 65	
Operating Case Temp.	°C	10 to 40	
Humidity	%	5 to 95	Non condensing

CUSTOMIZATION

The **TENOR-2000** is a laser platform that can be customized to match Customer's specific requirements. Please contact Cybel.

COMPLIANCE with Regulatory Requirements: These BENTOP-OEM 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



1195 Pennsylvania Ave
Sales: contact@cybel-llc.com
Bethlehem, PA 18018