

## Key Features

- 19" 2U Benchtop
- Broadband ASE Spectrum
- Output power: 250mW to 1W
- 20dB Bandwidth >160nm
- Customized center wavelength from 2000 to 2100nm
- Diffraction limited beam
- Standard or PM fiber version
- Output isolator
- USB Interface
- Operation Temp: 10 to 35°C

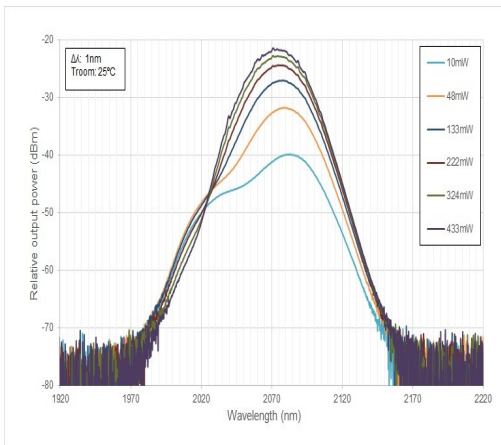
The **CYBEL MIR-ASE-BT-2000** is a fiber mid infrared (MIR) broadband light source. This amplified stimulated emission (ASE) source exhibits an excellent power stability, low temporal coherence and high spatial coherence. These combined features are ideal for applications ranging from optical component testing, gas analysis to optical coherence tomography (OCT).

The **MIR-ASE-BT-2000** comes in a 19" turn-key rack mountable benchtop version with either a random or linear polarized output signal. The unit delivers an output power of 250mW up to 1W with a 20dB band of 160nm.

The **MIR-ASE-BT-2000** can be designed to have its centered emission wavelength selected from 2000nm to 2100nm. Its output power is scalable to Watt level with an optical isolator.

## Applications

- Optical component testing
- Gas spectrum analysis
- Spectroscopy
- Bio-medical analysis



## Other ASE sources

- ◆ MIR-ASE-1900
- ◆ MIR-ASE-BT-1900
- ◆ MIR-ASE-2000

## Turn-Key Rack Mount Benchtop

# MIR-ASE-BT-2000 Specifications

OPTICAL	Unit	Value	Comments
Center wavelength	nm	2070	Other Wavelengths available from 2000nm to 2100nm
Output power ( CW )	mW	250	Scalable, High power available up to 1W
Bandwidth (-20dB )	nm	160	Typical
Beam quality ( M <sup>2</sup> )	M <sup>2</sup>	< 1.1	
Polarization ext. ratio	dB	≥ 20	PM version
Output fiber stability	%	<1	With 30dB output isolator @25C
Pigtail output fiber	m	SM 1950 or PM 1950 Panda fiber	Armored cable, Optional
Fiber length	m	1	Output connector; FC/APC
Output power tuning range	%	10 to 100%	
<b>ELECTRICAL/MECHANICAL</b>			
Power consumption	W	25	25 °C, 400mW output power
Dimensions	inch	19 " -2U	Rack mount front panel control or USB computer interface
Storage temperature	°C	-20 to 65	
Operating case temp.	°C	10 to 35	Cooling via forced air
Humidity	%	5 to 95	Non condensing

## CUSTOMIZATION

The **MIR-ASE-BT-2000** 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.



1195 Pennsylvania Ave  
Bethlehem, PA 18018  
Phone: 610-691-7012

Sales: [contact@cybel-llc.com](mailto:contact@cybel-llc.com)

Website: [www.cybel-llc.com](http://www.cybel-llc.com)