

Key Features

- Wavelength 1900 to 2050nm
- Output power 4 to 10W
- Single frequency operation
- Laser linewidth: 2MHz to 10kHz
- Single mode, $M^2 \approx 1.1$
- Benchtop or OEM unit
- Operation Temp: 10 to 40°C
- Standard or All-PM version
- Efficient cooling system
- Optional Output collimator

Applications

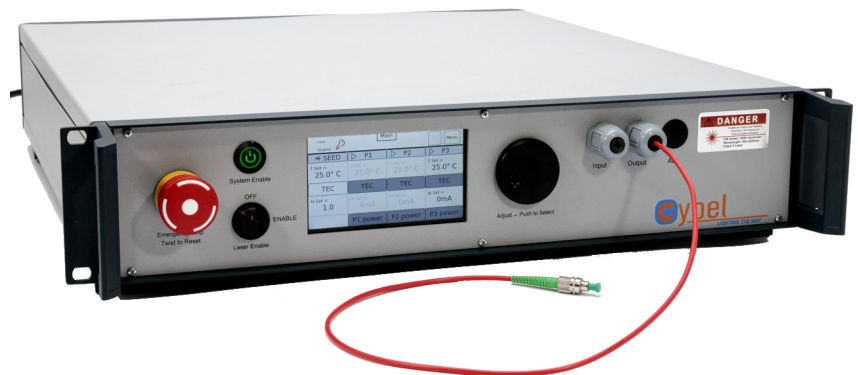
- Lidar
- Interferometry & spectroscopy
- Optical Pumping
- Testing and Measurement
- Plastic processing
- Medical

Cybel Thulium & Holmium Amplifiers & laser products

- ◆ MISTRAL-AMP-1W-2051
- ◆ MISTRAL-AMP -20W-2051
- ◆ SCIROCCO-AMP-1W-1950
- ◆ MAESTRO-AMP-20W-2000
- ◆ VULCAN-10W-1950
- ◆ HELIOS-AMP- 5W-2100
- ◆ ASTROLIGHT-5W-1950

The CYBEL MAGNI-NL-BT-2000 series is a line of narrow linewidth, high power Thulium doped fiber lasers designed at a wavelength range of 1900 to 2050nm. The **MAGNI-NL-BT-2000** laser delivers more than 10W of CW power with a random or linear polarization and a single mode high beam quality, $M^2 < 1.1$. This laser has been designed for industrial as well as R&D applications.

The **MAGNI-NL-BT-2000** laser comes in a 19" rack mount benchtop unit with either a standard or an all polarization maintaining (PM) fiber. This laser is also available in a compact OEM format (200x150x43mm³) for easy system integration and deployment. Output power, key monitoring and operating parameters such as automatic current control (ACC) and automatic power enable control (APC) modes are controlled from an USB port.



Turn-Key Rack Mount Benchtop

MAGNI-NL-BT-2000 Specifications

OPTICAL	Unit	Value	Comment
Wavelength range	nm	1900 to 2050	Other wavelengths available
Spectral width	MHz	2	50 to 100kHz linewidth available
Output power	W	4 to 10	Higher power available
Signal to noise ratio (OSNR)	dB	50	@Pout =4W
Output power stability	%	5	After 20min warm-up time
Polarization Ext. Ratio	dB	≥ 18	PM version
Beam quality (M ²)	M ²	<1.1	
Output isolator	dB	Optional	Output collimator option & fiber tap option
Out fiber length	m	1	SM or PM 1950-Armored cable, Optional
Connector		FC/APC	Other connector and Collimator available
ELECTRICAL			
Voltage	V	110-220	19" benchtop unit
Warm-up time	min	20	
Power consumption	W	200	@Pout=10W
Control interface		USB	
Control mode		ACC-APC	Control via USB port
GENERAL			
Dimensions	Inch	19"	2U-Rack mount Benchtop-OEM Available
Storage temperature	°C	-20 to 65	
Operating case temperature	°C	10 to 40	
Operating relative humidity	%	5 to 95	Non-condensing

CUSTOMIZATION

The **MAGNI-NL-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.



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