

Key Features

- Wavelength 1800 to 2050nm
- Output power 5 to 20W
- Single mode, $M^2 \approx 1.1$
- Benchtop or OEM unit
- USB interface
- Operation Temp: 10 to 40°C
- Standard or All-PM version
- Efficient cooling system
- Optional Output collimator

Applications

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

Cybel Thulium & Holmium Amplifiers & Laser products

- ◆ MISTRAL-Amp 1W-2051
- ◆ MISTRAL+ Amp 20W-2051
- ◆ SCIROCCO-Amp 1W-1950
- ◆ MAESTRO-Amp 20W-2000
- ◆ MAGNI-Laser NL 10W-1950
- ◆ HELIOS-Amp 5W 2100
- ◆ ASTROLIGHT-Laser 5W 1950

The CYBEL VULCAN-BT-2000 series is a line of high power pump Thulium doped fiber lasers at a selected wavelength in the range of 1900 to 2050nm. The VULCAN-BT-2000 laser delivers from 4 to 20W of CW power with a random or linear polarization and a single mode high beam quality, $M^2 < 1.1$. This laser is designed for industrial as well as R&D applications.

The VULCAN-BT-2000 laser comes in a 19" rack mounted benchtop unit with either a standard or a PM fiber. This laser is also available in a compact OEM format for easy system integration and deployment. The optical output power, key monitoring and operating parameters such as automatic current control (ACC) and automatic power control (APC) modes are controlled from the USB port.



Turn-Key Rack Mount Benchtop

VULCAN-BT-2000 Specifications

OPTICAL	Unit	Value	Comment
Wavelength range	nm	1800 to 2050	Other wavelengths available
Spectral width	nm	<0.1	
Output power	W	5 to 20	Higher power available
Signal to noise ratio (OSNR)	dB	50	@Pout=W
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		Optional	Output collimator as an optional
In/out fiber length	m		SM or PM 1950-Armored cable
Connector		FC/APC	Other connectors and Collimators available
ELECTRICAL			
Voltage	V	110-220	2U-19 " benchtop unit
Warm-up time	min	20	
Power consumption	W	200	@Pout max=10W
Control interface		USB	
Control mode		ACC-APC	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 VULCAN-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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