



VULCAN-2000

10W CW

Thulium Fiber Laser

Key Features

- Wavelength 1900 to 2050nm
- Spectral width < 0.1nm
- Output power 10W
- Single mode, $M^2 \approx 1.1$
- Benchtop or OEM unit
- Operation Temp: 0 to 50°C
- Standard or All-PM version
- Efficient cooling system
- Optional Output collimator

Applications

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

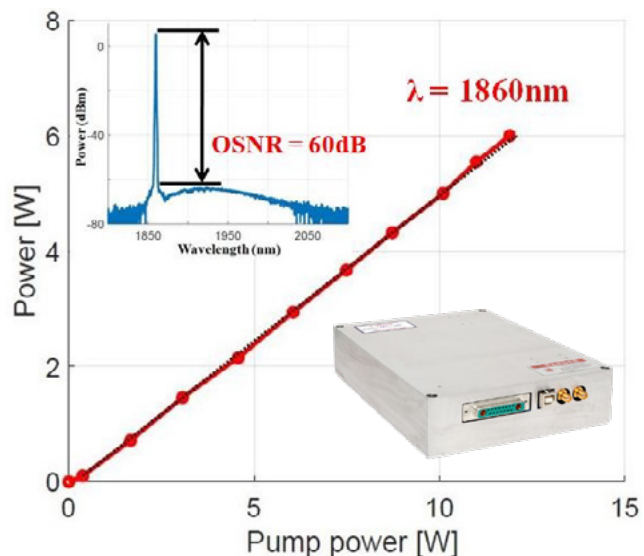
SKYLINE SERIES

- ♦ VULCAN-1064
- ♦ VULCAN-1550
- ♦ MAGNI-NL 1950
- ♦ ASTROLIGHT-1950
- ♦ SCIROCCO-1950
- ♦ MISTRAL-2051
- ♦ HELIOS-2100



The **CYBEL VULCAN-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-2000** laser delivers 10W 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-2000** laser comes in a OEM (200x150x43mm³) package with either a standard or a PM fiber. The optical output power, key monitoring and operating parameters such as automatic current control (ACC) and automatic power control (APC) modes are controlled from a RS 232 computer interface.



VULCAN-2000 Specifications

OPTICAL	Unit	Value	Comment
Wavelength range	nm	1900 to 2050	Other wavelengths available
Spectral width	nm	<0.1	
Output power	W	10	
Signal to noise ratio (OSNR)	dB	60dB	@Pout=10W
Output power stability	%	5	After 20min warm-up time
Polarization ext. ratio	dB	≥ 18	PM version
Max Modulation frequency	kHz	2	
Beam quality (M ²)	M ²	<1.1	
Output isolator		Optional	Output collimator as an option
In/out fiber length	m	2	SM or PM 1950-Armored cable
Connector		FC/APC	Other connectors and Collimators available
ELECTRICAL			
Voltage	V	18-30	
Warm-up time	min	20	
Power consumption	W	200	@Pave max=10W
Control interface		RS 232	
Control mode		ACC-APC	USB Port
GENERAL			
Dimensions	mm	200x150x43	
Storage temperature	°C	-20 to 65	
Operating case temperature	°C	0 to 50	Cooling via forced air
Operating relative humidity	%	5 to 95	Non-condensing

CUSTOMIZATION

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

COMPLIANCE with Regulatory Requirements: These 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.

