

Key Features

- Laser linewidth: 10 kHz
- Typ. λ : 2000 nm, other λ 's available.
- High energy up to 200 mJ
- Output power up to 20 W
- PRF from 100 Hz to 2 kHz
- Pulse width: 250 μ s - 5 ms
- Beam quality $M^2 < 1.1$
- PER: 18 dB

Applications

- LIDAR-LADAR
- Range finding
- Airborne Mapping
- Remote sensing
- Non linear optics conversion

BEACON SERIES

Available at different standard wavelengths with same high performance and compact footprint:

- ◆ BEACON-1064
- ◆ BEACON-1550

The CYBEL BEACON-2000 is a Quasi CW (QCW) up to 20 W pulsed fiber laser at 2000 nm. This laser delivers pulses from 250 μ s to 5 ms over a wide range of repetition rates from 100 Hz to 2 kHz.

The BEACON-2000 is an efficient and compact OEM unit (200x150x43 mm³) in either standard or PM fiber. Its robust design has been battle tested for airborne or ground sensing applications, undergone environmental testing.

This laser output power and key operating parameters are controlled from either an RS-232 or USB port. The pulses are triggered by either an external TTL input signal or internal software command.

BEACON-2000 20W QCW Laser



BEACON-2000 Specifications

OPTICAL	Unit	Min	Max	Comments
Mode of Operation		Pulsed		
Wavelength	nm	2000		Other λs Available
Linewidth	kHz	10		
Repetition Rate	Hz	100	2000	Adjustable
Pulse Width	μs	250	5000	Adjustable
Output Peak Power	W	20		
Output Energy/Pulse	mJ	10	200	
Average Output Power	W	5		
Output Power Tunability	%	10 - 100		
Polarization Ext. Ratio (PER)	dB	20		PM Version
Output Beam Quality (M ²)		1.1		Diffraction Limited
Signal to Noise Ratio (OSNR)	dB	45		OSA Res. = 0.1nm
Output Power Stability (RMS)	%	3		After 20 Min Warm-Up Time
Output Fiber Length	m	1		FC/APC Connector
Output Isolation	dB	20		Optional
Connector		FC/APC		Other Connectors and Collimators Available
ELECTRICAL				
Voltage	V	18 to 30		
Warm Up Time	min	20		
Power Consumption	W	45		@ Pout Max= 5 W
Control Interface		RS-232		
Mode of Operation		ACC		
GENERAL				
Dimensions	mm ³	200x150x43		W/O Heat Sink
Storage Temperature	°C	-10 to 70		
Operating Case Temp.	°C	10 to 50		Cold Plate Recommended
Humidity	%	5 to 95		Non Condensing

CUSTOMIZATION

The **Beacon** 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.



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