

Key Features

- Broadband ASE Spectrum
- High output power: 500 mW
- 20dB Bandwidth: 140 nm
- Customized center wavelength from 1800 to 1900nm\
- Diffraction limited beam
- Standard or PM fiber version
- Output isolator
- OEM or 19 " Benchtop
- USB Interface
- Operation Temp: 0 to 50 °C

Applications

- Optical component testing
- Polymer processing
- Spectroscopy
- Bio-medical analysis
- OCT applications

Other ASE Sources

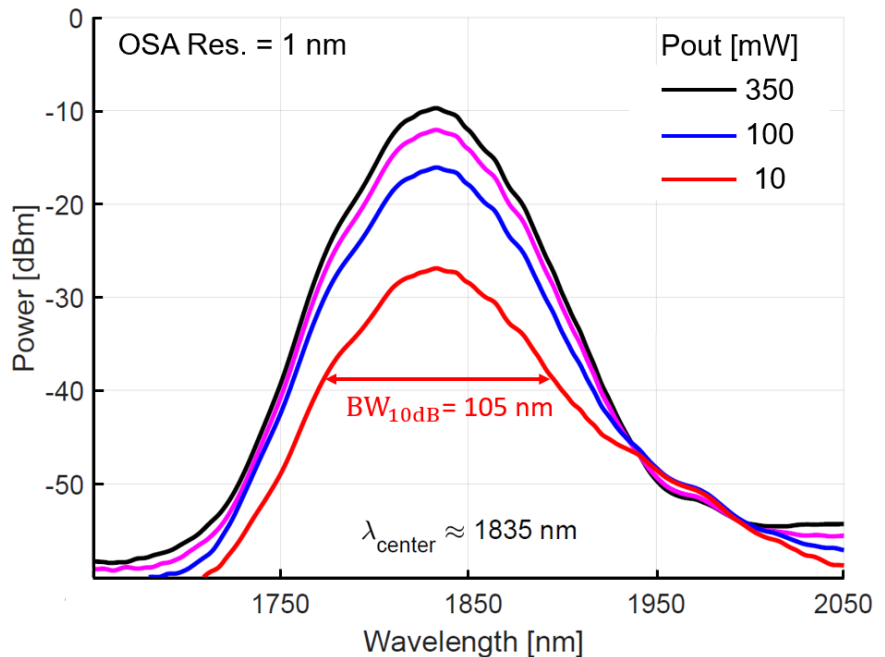
Also available at different standard wavelengths with same footprint and high performance:

- ◆ MIR-ASE-2000
- ◆ MIR-ASE-1900

The **CYBEL NIR-ASE-1800** is a fiber near infrared (NIR) broadband light source. This amplified stimulated emission (ASE) source exhibits an excellent power stability, low temporal coherence and a high spatial coherence. These combined features are ideal for applications ranging from optical component testing, gas analysis to OCT.

The **NIR-ASE-1800** comes in an OEM module (200x150x43 mm³) or a 19 " turn-key rack mountable benchtop version with either a random or linearly polarized output signal. The unit delivers up to 500 mW of power with a 20 dB bandwidth of 140 nm .

The **NIR-ASE-1800** can be designed to have its central emission wavelength choose from 1800 nm to 1900 nm. Its output power is scalable to Watt level with an optical isolator.



ASE Spectrum Evolution vs. Pout

NIR-ASE-1800 Specifications

OPTICAL	Unit	Value	Comment
Center wavelength	nm	1830	Other wavelengths available
Output power (CW)	mW	400	Scalable; High power available (>1W)
Spectral Bandwidth (-20dB)	nm	140	
Beam quality (M ²)	M ²	< 1.1	
Polarization Ext. Ratio (PER)	dB	≥ 17	PM version
Output power stability (RMS)	%	< 1	30 dB output isolator @25 °C
Pigtail Output fiber	m	SM1950 or PM1950	Panda fiber, Armored cable optional
Fiber length	cm	> 80	Output connector; FC/APC
Output power Tuning range	%	10 to 100	
ELECTRICAL/MECHANICAL			
Dimensions	mm	200x150x43	19 " 2U Benchtop optional
Supply power consumption	W	10	25 °C, 400mW output power
Storage Temperature	°C	-20 to 65	
Operating temperature	°C	10 to 50	With air forced heat sink
Operating relative humidity	%	5 to 95	Non-condensing

CUSTOMIZATION

The **NIR-ASE-1800** 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.



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