

### Key Features

- Broadband ASE Spectrum
- High output power: 500mW
- 20dB Bandwidth >160nm
- 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
- Gas spectrum analysis
- Spectroscopy
- Bio-medical analysis
- OCT applications

### Other ASE Sources

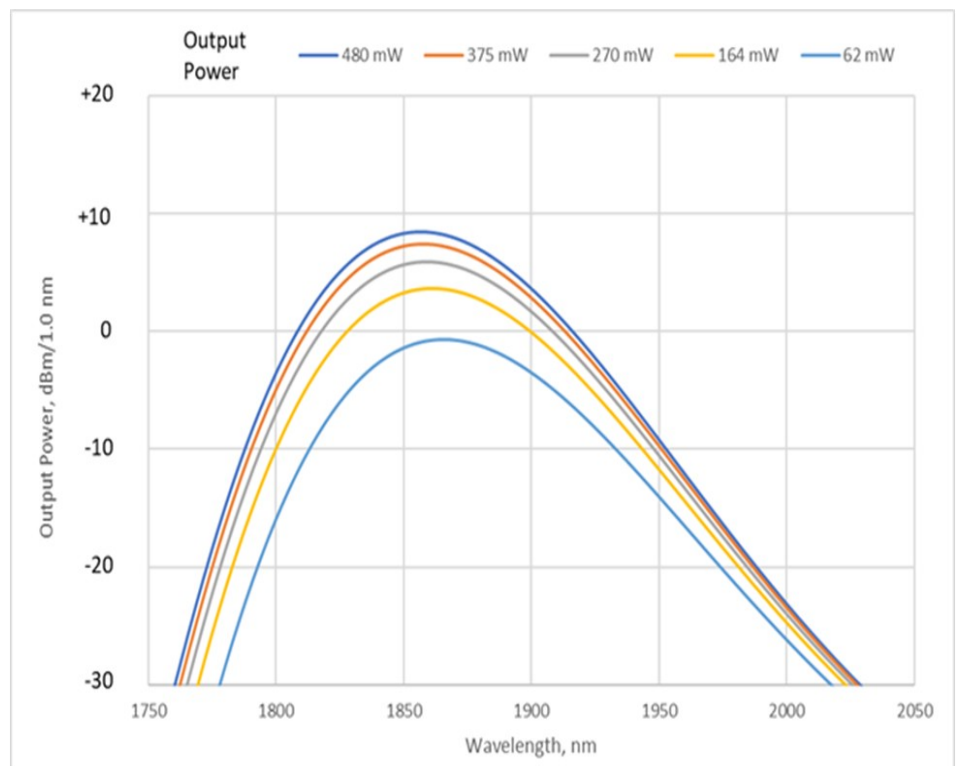
Also available at different standard wavelengths with same high performance and footprint:

- ◆ MIR-ASE-2000

The **CYBEL MIR-ASE-1900** is a fiber mid infrared (MIR) 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 **MIR-ASE-1900** comes in an OEM module ( 200x150x43mm<sup>3</sup> ) or a 19 " turn-key rack mountable benchtop version with either a random or linear polarized output signal. The unit delivers up to 500mW of power with a 20dB band of 160nm .

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



## ASE Spectrum Evolution vs. Pout

# MIR-ASE-1900 Specifications

OPTICAL	Unit	Value	Comment
Center wavelength	nm	1850	Other wavelengths available
Output power ( CW )	mW	500	Scalable; High power available ( >1W )
Bandwidth ( -20dB )	nm	160	Typical
Beam quality ( M <sup>2</sup> )	M <sup>2</sup>	<1.1	
Polarization Ext. Ratio	dB	≥ 20	PM version
Output fiber stability	%	<1	30dB output isolator @25C
Pigtail Output fiber	m	SM 1950 or PM1950 Panda fiber	Armored cable, Optional
Fiber length	cm	>80	Output connector; FC/APC
Output power Tuning range	%	10 to 100%	
<b>ELECTRICAL/MECHANICAL</b>			
Dimensions	mm	200x150x43	or 19 " rack mount USB computer interface
Supply power consumption	W	25	25 °C, 400mW output power
Storage Temperature	°C	-20 to 65	
Operating temperature	°C	10 to 50	With heat sink and forced air
Operating relative humidity	%	5 to 95	Non-condensing

## CUSTOMIZATION

The **MIR-ASE-1900** 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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