

Key Features

- Broadband ASE Spectrum
- High output power: 500mW
- 20dB Bandwidth >160nm
- Customized center wavelength from 2000 to 2100nm
- Diffraction limited beam
- Standard or PM fiber version
- Output isolator
- OEM or 19 " Benchtop
- USB Interface

The **CYBEL MIR-ASE-2000** is a fiber mid infrared (MIR) broadband light source. This amplified stimulated emission (ASE) source exhibits an excellent power stability, low temporal coherence and high spatial coherence. These combined features are ideal for applications ranging from optical component testing, gas analysis to OCT.

The **MIR-ASE-2000** comes in an OEM module (200x150x43mm³) 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-2000** can be designed to have its centered emission wavelength selected from 2000nm to 2100nm. Its output power is scalable to Watt level with an optical isolator.

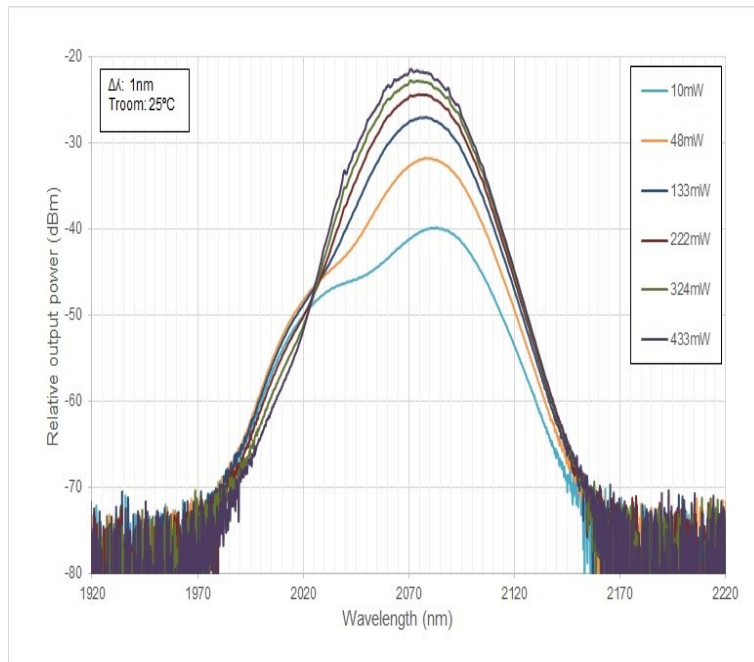
Applications

- 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-1900



ASE Spectrum Evolution vs Pout

MIR-ASE-2000 Specifications

OPTICAL	Unit	Value	Comments
Center wavelength	nm	2070	Other Wavelengths available from 2000nm to 2100nm
Output power (CW)	mW	500	Scalable, High power available (> 1W)
Bandwidth (-20dB)	nm	160	Typical
Beam quality (M ²)	M ²	< 1.1	
Polarization ext. ratio	dB	≥ 20	PM version
Output fiber stability	%	<1	With 30dB output isolator @25C
Pigtail output fiber	m	SM 1950 or PM 1950 Panda fiber	Armored cable, Optional
Fiber length	cm	>80	Output connector; FC/APC
Output power tuning range	%	10 to 100%	
ELECTRICAL/MECHANICAL			
Power consumption	W	25	25 °C, 400mW output power
Dimensions	mm	(200x150x43) or 19 " rack mount	USB computer interface
Storage temperature	°C	-20 to 65	
Operating case temp.	°C	10 to 50	With heatsink and forced air
Humidity	%	5 to 95	Non condensing

CUSTOMIZATION

The **MIR-ASE-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.



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