

WIDE Spectra

Compact High-Resolution Laser Spectrum Analyzer

WIDE Spectra is a high-resolution laser spectrum analyzer with wide measurement bands. Ideal for monitoring narrow-linewidth tunable laser emission over tens or hundreds of nanometers, it is suitable for both continuous and pulsed laser sources, from single pulse to quasi-cw, without any temporal artifact. Thanks to smart SWIFTS™ Technology, WIDE Spectra has a steady calibration and can also operate as a multi-wavelength meter.

SPECIFICATIONS

Wavelength range	630 - 1100 nm	
Optical Spectral Resolution ⁽¹⁾		
	Max	10 GHz
	Typical	8 GHz
	Min	5 GHz
Absolute accuracy ⁽²⁾	12 - 40 pm / 10 GHz	
Maximum linewidth of a mode ⁽³⁾	300 GHz	
Best dynamic range	1:20	
Wavelength bandwidth one measurement	30 - 130 nm	
Maximum measurement rate	10 Hz	
Integration time	1 ms - 30 s	
Input power range ⁽⁴⁾	10 nW - 1 mW	
Optical input	FC/APC PM singlemode fiber N.A. 0.12	
Power consumption	500 mW max (USB power supply)	
Communication	USB 3.0	
Dimensions	10 x 9 x 6 cm	

FUNCTIONALITIES with SpectraResolver software

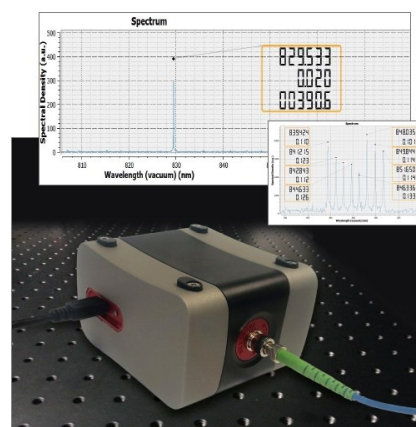
Compatibility	Windows 7, 8 & 10
Recording	Continuous or multiframe
Dark measurement	Manual and wizard modes
Multi-wavelength meter function	Automatic peak(s) detection
Standard graphical utilities	Zoom, markers and peak(s) detection over time
Unit change	nm / cm ⁻¹ / THz
Software development kit	C/C++, DotNet, VIs libraries

⁽¹⁾ Full Width at Half Maximum (FWHM) of singlemode unresolved laser

⁽²⁾ T^{*} calibrated on 10-40°C, no recalibration needed

⁽³⁾ For single and multimode lasers

⁽⁴⁾ Coupled in PM singlemode fiber



Key features

- 5 GHz high spectral resolution
- Wide measurement bands: 30 - 130 nm
- Compact size
- Robust long-life factory calibration
- User-friendly SpectraResolver software

Applications

- Narrow to medium linewidth lasers
- Tunable lasers over a wide spectral range (OPO, ECDL...)
- Multifrequency spectrum, linewidth, absolute wavelength measurement
- FBG interrogation
- Frequency comb

