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
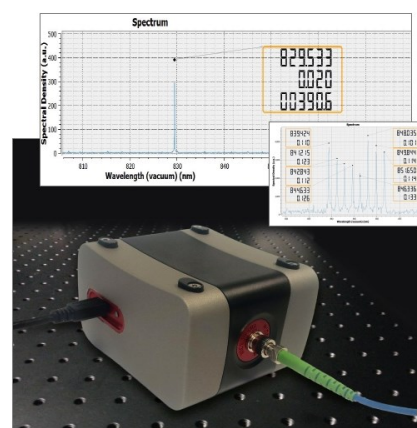
Key features

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

SWIFTS™
TECHNOLOGY
Patents UJF/INPG/UTT/CNRS

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