

# 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 <sup>(1)</sup> |                                      |        |
|  | Max                                  | 10 GHz |
|  | Typical                              | 8 GHz  |
|  | Min                                  | 5 GHz  |
| Absolute accuracy <sup>(2)</sup>           | 12 - 40 pm / 10 GHz                  |        |
| Maximum linewidth of a mode <sup>(3)</sup> | 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 <sup>(4)</sup>           | 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

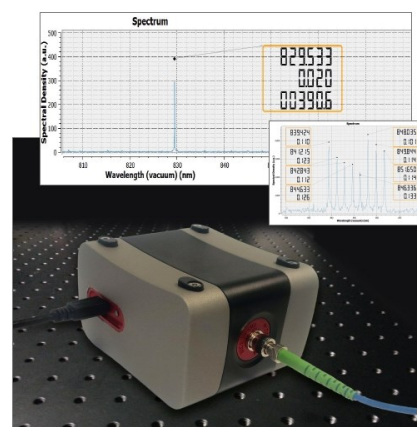
|                                 |   |
|---------------------------------|---|
| Compatibility                   | Windows 7, 8 & 10                             |
| Recording                       | Continuous or multiframe                      |
| Dark measurement                | Manual and wizard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

<sup>(1)</sup> Full Width at Half Maximum (FWHM) of singlemode unresolved laser

<sup>(2)</sup> T° calibrated on 10-40°C, no recalibration needed

<sup>(3)</sup> For single and multimode lasers

<sup>(4)</sup> 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

