

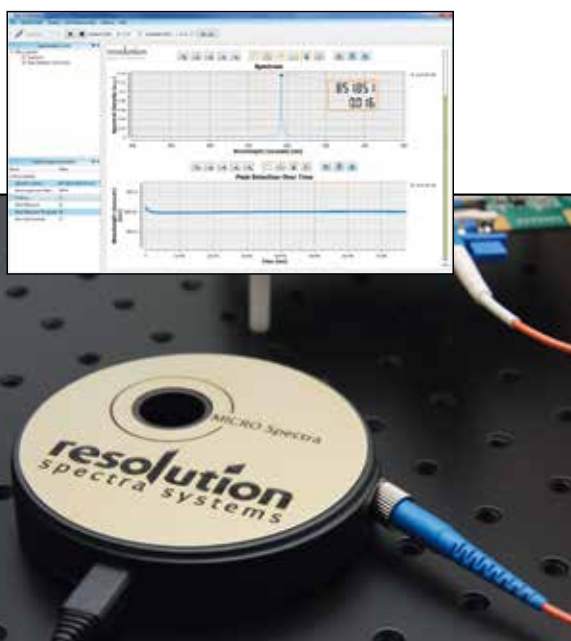
MICRO Spectra

Mini Ultra-high Resolution Spectrometer

MICRO Spectra is the only mini spectrometer giving you access to ultra-high spectral resolution. You can perform measurements on a simultaneous bandwidth of a few nanometers within 630-1070 nm.

Thanks to smart **SWIFTS™** TECHNOLOGY, forget about re-calibration.

MICRO Spectra is a very easy and affordable tool to control your laser sources.



Key features

- > Ultra high spectral resolution ($R > 50,000$)
- > Ultra compact size
- > Wavelength range : 630 – 1083 nm
- > Simultaneous bandwidth of a few nm
- > Robust long-life factory calibration
- > User-friendly SpectraResolver software

Applications

- > Laser control
- > Basic Research
- > OEM integration and embedded applications



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CHARACTERISTICS

| | |
|--------------------------------------|---|
| Wavelength range ⁽¹⁾ | 630 to 1083 nm |
| Optical Spectral Resolution | 7-20 pm / 0.2 cm^{-1} / 6 GHz |
| Absolute accuracy ⁽²⁾ | 7-20 pm / 0.2 cm^{-1} / 6 GHz |
| Wavelength bandwidth one measurement | 3.5 nm (@ 630 nm) 10 nm (@ 1083 nm) |
| Maximum measurement rate | 1 Hz |
| Integration time | 15 ms to 29 s |
| Input power range | 10 nW - 1 mW |
| Aperture | Singlemode fiber N.A. 0.12 |
| Fiber connection | FC/APC |
| Power consumption | 500 mW max (USB power supply) |
| Communication | USB2.0 |
| Dimensions | Ø 9.2 cm x 2 cm |

FUNCTIONALITIES with SpectraResolver Software

| | |
|---------------------------------|---|
| Compatibility | Windows XP, 7, 8 |
| 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 | DotNet library available Vis LabView available |
| SWIFTS™ TECHNOLOGY | Patents UJF/INPG/UTT/CNRS |

⁽¹⁾ Factory calibration of 3 bands or more on this range, see wavelength bandwidth above.

⁽²⁾ T° calibrated on 10-40°C, no recalibration needed.

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