MICRO Spectra

Mini High-Resolution Laser Spectrum Analyzer

MICRO Spectra is the only mini laser spectrum analyzer giving you access to high spectral resolution. You can perform measurements on a simultaneous bandwidth of a few nanometers within 630-1100 nm.
Thanks to SWIFTS™ Technology, forget about recalibration.
MICRO Spectra is a very easy and affordable tool to control your narrow-linewidth laser sources.

SPECIFICATIONS

Wavelength range	630 - 1100 nm
Optical Spectral Resolution [1]	
Max	10 GHz
Typical	8 GHz
Min	5 GHz
Absolute accuracy [2]	8 - 24 pm / 6 GHz
Maximum linewidth of a mode [3]	100 GHz
Best dynamic range	1:200
Wavelength bandwidth one measurement	3.5 nm (@ 630 nm) 10 nm (@ 1100 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	Ø 9.2 x 2 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
- Ultra compact size
- Simultaneous bandwidth of a few nm
- Robust long-life factory calibration
- User-friendly SpectraResolver software

Applications

- Single mode and multimode laser characterization
- Tunable laser monitoring
- Educational kit

SWIFTS™ TECHNOLOGY
Patents UJF/INPG/UTT/CNRS

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