resolution spectra systems

LASER 2000

ZOOM Spectra

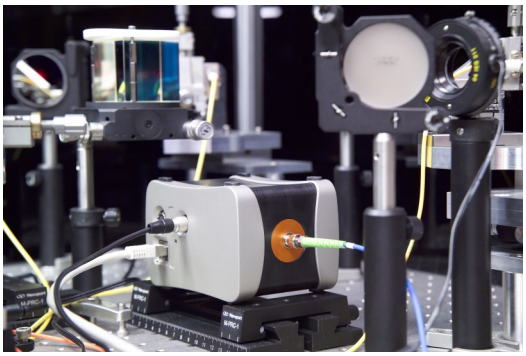
High-Resolution High-Rate Laser Spectrum Analyzer

ZOOM Spectra gives you access to high spectral resolution on a simultaneous bandwidth of a few nanometers. ZOOM Spectra is both a multi-wavelength meter (picometer accuracy) and a spectrum analyzer. It is the ideal tool for the characterization of your CW and pulsed (>20 ps) lasers.

SPECIFICATIONS	
Wavelength range	630 - 1100 nm
Optical Spectral Resolution [1]	
Max	8 GHz
Typical	6 GHz
Min [2]	3 GHz
Absolute accuracy [3]	1 - 2 pm / 600 MHz
Maximum linewidth of a mode [4]	100 GHz
Best dynamic range	1:200
Wavelength bandwidth one measurement	5 nm (@ 630 nm) 14 nm (@ 1100 nm)
Maximum measurement rate	30,000 frame/s
Integration time	320 ns - 500 ms (32 ns step)
Input power range [5]	10 nW - 1 mW
Optical input	FC/APC PM singlemode fiber N.A. 0.12
Power consumption	11 W - 450 mA @ 24 VDC
Communication	Gigabit Ethernet
Dimensions	12.6 x 8.3 x 9.1 cm

FUNCTIONALITIES with SpectraResolver software	
Compatibility	Windows 7, 8 & 10
Recording	Continuous, multiframe or triggered
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
Trigger option	TriggerBox and adjustable trigger delay
Software development kit	C/C++, DotNet, VIs libraries

[1] Full Width at Half Maximum (FWHM) of singlemode unresolved laser
[2] Down to 1.5 GHz on demand
[3] T° calibrated on 10-40°C, no recalibration needed
[4] For single and multimode lasers
[5] Coupled in PM singlemode fiber



Key features

- 3 GHz high spectral resolution
- Excellent absolute accuracy: 600 MHz
- Simultaneous bandwidth of a few nm
- High measurement rate capability: 30 kHz
- Compact size
- Robust long-life factory calibration
- User-friendly SpectraResolver software
- Trigger

Applications

- Continuous and pulsed/triggered lasers (ns/ps lasers)
- Absolute wavelength and spectrum measurement
- Multifrequency lasers
- Mode-hop characterization
- Laser modulation

SWIFTS™ TECHNOLOGY

Patents UJF/INPG/UTT/CNRS

LASER 2000

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