

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

630 - 1100 nm Wavelength range

Optical Spectral Resolution (1)

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

5 nm (@ 630 nm) Wavelength bandwidth one

measurement 14 nm (@ 1100 nm)

30,000 frame/s Maximum measurement rate

Integration time 320 ns - 500 ms (32 ns step)

10 nW - 1 mW Input power range (5)

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

Zoom, markers and peak(s) detection Standard graphical utilities over time

Unit change nm / cm⁻¹ / THz

TriggerBox and adjustable trigger delay Trigger option

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

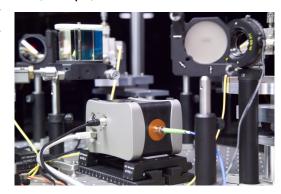
3 T calibrated on 10-40°C, no recalibration needed

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



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