

FINISAR®

Product Features

- ▶ Full C-band coverage
- ▶ Resolution bandwidth: 1.75 GHz
- ▶ Fast: 2 updates / second
- ▶ Very small, lightweight
- ▶ USB interface
- ▶ No moving parts

Applications

- ▶ Optical system test
- ▶ DWDM testing
- ▶ Channel power and OSNR testing
- ▶ Channel equalizing
- ▶ Network test

WaveAnalyzer 100S

Compact Optical Spectrum Analyzer

Overview

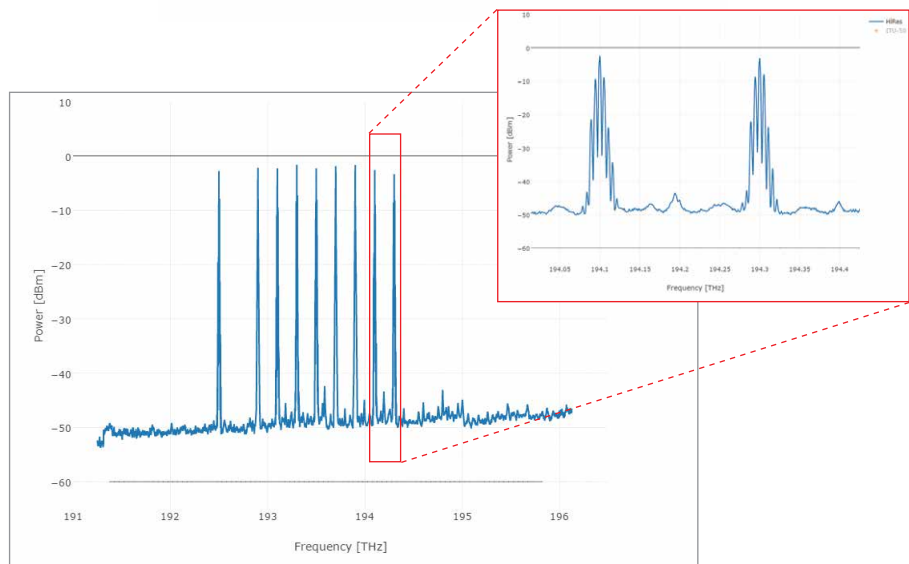
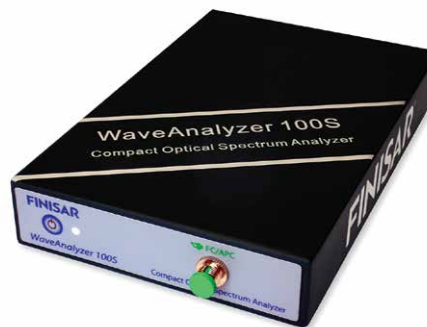
The WaveAnalyzer 100S is a Compact Optical Spectrum Analyzer covering the C-band of optical communications. It has been designed in particular to measure key parameters of DWDM systems like channel power, channel center frequency and optical signal to noise ratio (OSNR). The instrument is designed for use in the Optical Lab, on the manufacturing floor and during installation and maintenance of optical networks.

The instrument is controlled via Finisar's WaveAnalyzer Graphical User Interface software package which is available for Windows based PCs.

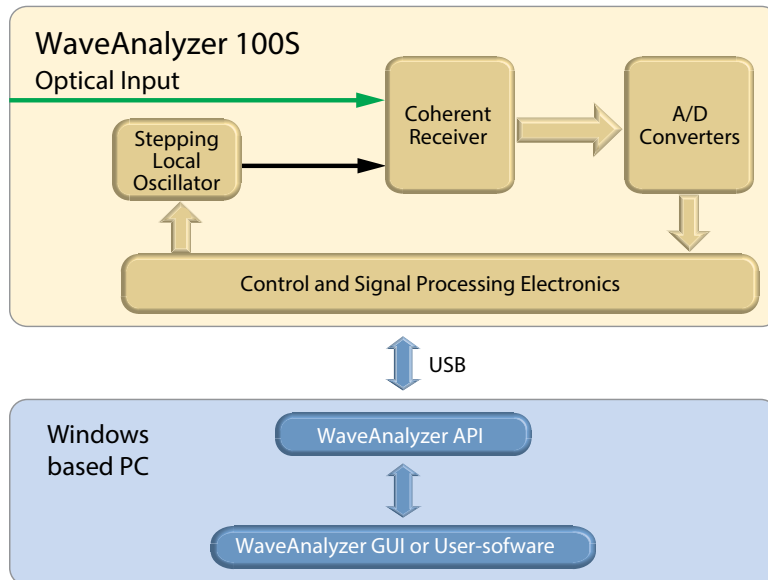
The WaveAnalyzer 100S is based on a coherent measurement principle which allows operation without any moving part inside the instrument.

Measurement

The graph below shows a typical measurement across the C-band, with a comb of signals modulated at 10 Gb/s. Zooming into the scan reveals great spectral detail of the signals, enabled by the 1.75 GHz resolution bandwidth of the instrument.



WaveAnalyzer 100S: Compact Optical Spectrum Analyzer



Specifications

Spectral	Frequency Range	191.25 to 196.125 THz (1528.6 to 1567.5 nm)
	Spectral Sampling Resolution	312.5 MHz
	Resolution Bandwidth (FWHM)	1.75 GHz (15 pm)
	Absolute Frequency Accuracy (1)	+/- 1 GHz
	Frequency Repeatability (sweep to sweep)	200 MHz
	Measurement Update Rate Full C-band scan	2 updates / s
Power	Max Total Power	10 dBm
	Max Power Density	0 dBm / 6.25 GHz
	Relative Power Accuracy	+/-0.5 dB (2)
Mechanical, Electrical and Environmental	Operating Temperature	15°C to 35°C
	Operating Humidity	10% to 85%
	Communications Interface	USB 2.0
	Power Consumption	100 V - 240 V; 10 (tbc) VA
	Connector Type	FC/APC
	Size	164 mm x 108 mm x 28 mm (tbc)
	Weight	< 1 kg

- Notes:**
1. Valid within recommended recalibration period
 2. Guaranteed when using an ASE source

Part Number	Description
WA-AA-0100S-ZZ-H	WaveAnalyzer 100S Compact Optical Spectrum Analyzer, C-band, FC/APC

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