



TLSA1000

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Tunable Laser Spectrum Analyzer

Our TLSA1000 Tunable Laser Spectrum Analyzer, with integrated laser source, data acquisition, and Sweepmeter™ calibration technology is the most precise spectrum analyzer anywhere, capable of resolving 0.01 picometer wavelength shifts in passive components and sensors.

SPECIFICATIONS

Operating Wavelength Range
1520-1620 nm

Sampling Rate/Channel
500 kSamples/s

Wavelength Scan Speed
1-150 nm/s

Total System Update Rate
> 1 Hz

Wavelength Resolution
0.4 - 48 pm/sample
User adjustable

Communication Interfaces
IEEE 488 (GPIB)
RS-232
USB 2.0

Wavelength Repeatability
0.1 pm (rms)

Software
SCPI command interface
Instrument Drivers for Labview and C

Wavelength Accuracy (Absolute)
0.4 pm (rms)

Input Electrical Power
AC 90-255V

NIST Traceable Calibration
HCN gas cell calibrates every scan

Packaging
19" Rackmount Chassis
483mm x 132mm x 400mm (W x H x D)

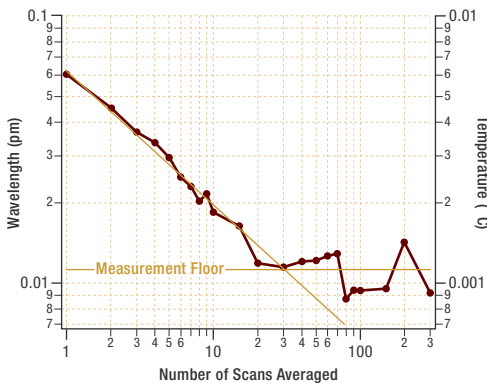
Spectral Line Width (FWHM)
150 kHz maximum

Optical Output Power
> -4 dBm typical (over full tuning range)

Polarization Output Options
SM Output Standard
PM Output and Polarization Scrambled
Output Available

Optical Input Channels
1 reflection, 2 transmission,
FC/APC narrow-key

Optical Input Range
-40 to 0 dBm



The TLSA1000 can achieve 0.01 pm precision to detect nano-strain, or a 10 ppb shift of a spectral feature.



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