

SpectraBox SAT DX

Portable Spectrum Analyzer 950 - 2150MHz



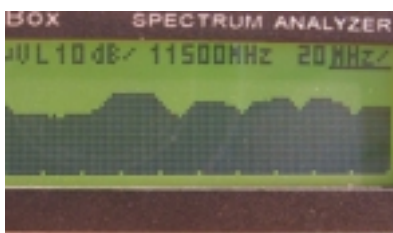
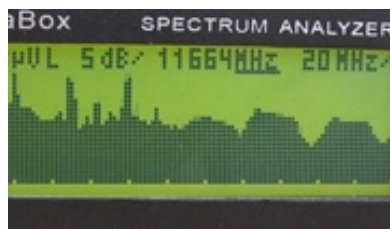
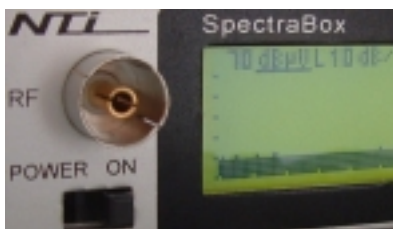
Making good things better ?

Sure !

Basing on the reliable standard model we introduce with the DX version a new model with extended hardware and software capabilities.

Many suggestions are originated by our customers:

- Additional DX mode for higher sensitivity
- Four programmable converter LO frequencies
- Higher frequency zooming resolution including zero-scan (0MHz/DIV)
- Visible basic noise level
- Higher dynamic range



Satisfying highest demands ...

The additional DX mode is a high-light, that makes weakest signals visible, which otherwise would be burried in the noise.

Therefore the minimum sensitivity improvement is typically 5-10dB compared to the standard version.

This is possible due a refined calibration procedure in combination with extended internal memory capacity.

It is also possible to upgrade the SpectraBox standard version, but this requires a new calibration. More details on request !

Small, handy and compact.

Nearly the same size as a video cassette and a low weight of hardly 700g make the device to an ideal companion for installation, maintenance and service applications.

A built-in accumulator allows portable operation for many hours.

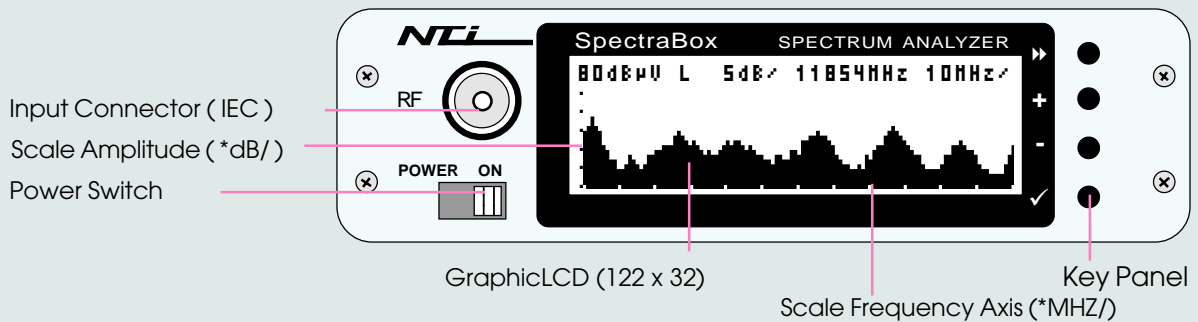
The frequency spectrum and additional informations are visible on a back-lighted graphic liquid cristal display.

The SpectraBox Family:

- SpectraBox / SAT & DX
950 - 2150MHz
- SpectraBox / ISM
1500 - 2500MHz
- SpectraBox / HF
0.1 - 40MHz



Small; but excellent: (original size)



Adaptable ...

Amplitude resolution is selectable in 2-5-10dB steps.

According to the maximum input level two different input level ranges (LOW/HIGH) are also selectable.

Within the chosen level range the related reference level can be varied in 10dB steps.

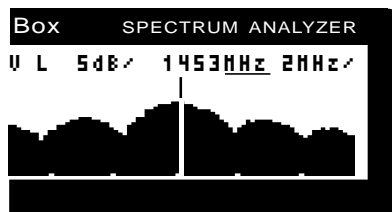


Integrated Zoom ...

After switching on the display shows first a complete spectrum scan.

An extra frequency cursor function allows to mark a certain frequency. Starting with the cursor frequency a frequency range of interest can be zoomed continuously.

This makes an accurate analysis of narrow band signals easier.



Simple Operation ...

Only four push buttons are required to control the instrument:

- Select menu
- Change parameters
- Acknowledgement



The chosen parameters are displayed above the spectral display.

For pre-converter operation it is possible to display the correct input frequency after entering the related LO-frequency.

Technical Data

Input Frequency Range:	950 - 2150MHz	Graphic LCD:	122 x 32Pixels
Input Connector (Impedance):	IEC / 75Ω	PC Serial Interface:	RS 232(DS-9)
Input Level Ranges (LOW/HIGH):	20/30-80 & 50-110dBuV (DX MODE OFF)	Measuring Principle: Homodyne/Direct Conversion	
Amplitude Scaling/DIV:	2-5-10dB	Dimensions:	113 x 32 x 170mm
Frequency Scaling/DIV:	Full-100-50-20-10-5-2-1-0MHz	Weight excl. Accumulator:	0.45kg
Sweep Time (Complete Scan):	3.5s - 0.4s (Full - 2MHz/DIV)		
Measurement Error:	max. +/- 3dB		
Resolution Bandwidth:	200KHz / 2MHz		
LO-Generated 2nd RF-IN Harmonic Rejection:	min. 35dBc		
Supply:	9 - 12V / 300mA (2.1mm DC-Plug)		

Optional Accessories:

- Plug-Power Supply
- AGC-output (0.5 - 3.5V) cinch connector
- Auto Resume firmware stores last selected parameters automatically

Test Report

Christian Mass: NTi SpectraBox SAT - TELE-satellite International 10-11/2002

Applications

- Spectrum monitoring & signal identification
- Measurement of input level; cross polarity separation & C/N
- Detecting signal & interference sources or leakage
- Broadband measurement of insertion gain or loss