

TZ-900

Timewave

AntennaSmith™ Antenna Impedance Analyzer



Day/Night Always-Visible Display

Day or night, the Timewave TZ-900 AntennaSmith™ is a bright colorful window to your antenna system. The transreflective TFT LCD color display is brilliantly visible in direct sunlight - no lost data from a washed-out display!

Full Graphics - Rapid update

The AntennaSmith™'s rapid sweep updates the data graph every two seconds. Quickly set the start, stop or center frequencies to see the data as you want it. A tap on a button gives you a different parameter. Tap another button to store a graph to print later or to display as a reference while you optimize your antenna system. Instantly see the effect of an adjustment or a change!

Adjustable Frequency Cursor/Generator

Quickly tune the cursor to check your antenna system at the desired frequency while looking at the big picture on a graph. The Direct Digital Synthesizer makes a great RF signal generator in the Synthesizer mode. Easily calibrate to WWV with 1 Hz frequency resolution.

Features

- Full Color TFT LCD Graphic Display
- 0.5 - 60 MHz
- SWR
- Impedance (Z)
- Reactance ($r+jx$)
- Reflection coefficient (ρ, θ)
- Smith Chart

Remote control

Use your PC or laptop to run the AntennaSmith™! The included AntennaSmith™ remote control program gives you the same displays and controls as the AntennaSmith™ itself.

Rugged and Portable

The AntennaSmith™ rugged extruded aluminum case holds four AA NiMH cells for hours of operation. A 12 VDC power supply/ charger (117VAC/60Hz) is included.

Specifications

Analysis

Parameters: SWR, Complex Impedance, $R+jX$, reflection coefficient, Smith Chart

Sweep rate: 2 seconds

Memory: 10 sweep and 10 reference data memories

Input/Output

Antenna interface: UHF female. BNC, N optional

Analyzer Frequency: 1 MHz to 55 MHz

Synthesizer: Direct Digital Synthesis with 1 Hz resolution

Synthesizer Frequency: 0.5 MHz to 60 MHz

Synthesizer output level: 0 dBm, nominal

Serial data rate: 115 kbps bps

Serial Port: RS-232C compatible - 3.5mm phone jack

Serial data protocol: ASCII

Power jack: 5.5 mm x 2.1 mm coaxial power jack

Physical

Enclosure: Extruded Aluminum

Size: 7.4 in. wide x 4.2 in. deep x 1.6 in. high

Weight: 1.45 lb.

Operating Temp.: 0 degrees C to 50 degrees C

Power: +9 to +18VDC @250mA, 4 internal NiMH AA cells



1025 Selby Ave., Suite 101, St. Paul, MN 55104 USA • 651-489-5080 Voice • 651-489-5066 Fax
<http://www.timewave.com> E-mail: sales@timewave.com