



**0.1 ... 600 MHz    0.1 ... 1000 MHz    0.1 ... 1400 MHz**

**RigExpert AA-600, AA-1000 and AA-1400** are powerful antenna analyzers designed for testing, checking, tuning or repairing antennas and antenna feedlines.

Mainly, these are SWR (Standing Wave Ratio) and impedance measurement instruments (vector impedance analyzers).

Easy-to use measurement modes, as well as additional features such as connection to a personal computer make RigExpert AA-600, AA-1000 and AA-1400 attractive for professionals and hobbyists.

The analyzers are available in non-US version (with ability to display Smith chart) and US version (displaying a polar chart instead).

The following tasks are easily accomplished by using these analyzers:

- Rapid check-out of an antenna
- Tuning an antenna to resonance
- Antenna SWR and impedance measurement and comparison before and after specific event (rain, hurricane, etc.)
- Making coaxial lines or measuring their parameters
- Cable testing and fault location
- Measuring capacitance or inductance of reactive loads

**Main Menu**

**Single-point SWR measurement**

**"Show all" screen**

**SWR graph**

**R, X graph**

**Impulse response and step response graph**

**Multi-point SWR measurement**

**Frequency entry**

**"Save to memory" screen**

**Data values at cursor**

**Smith chart**

**Polar chart**

## Specifications

**Frequency range:** 0.1 to 600 MHz — AA-600  
 0.1 to 1000 MHz — AA-1000  
 0.1 to 1400 MHz — AA-1400

**Frequency entry:** 1 kHz resolution

**Measurement** for 25, 50, 75 and 100-Ohm systems

**SWR measurement range:** 1 to 100 in numerical mode,  
 1 to 10 in graph mode

**SWR display:** numerical or easily-readable bar

**R and X range:** 0...10000, -10000...10000 in numerical mode,  
 0...1000, -1000...1000 in graph mode

### Display modes:

- SWR at single or multiple frequencies
- SWR, return loss, R, X, Z, L, C at single frequency
- SWR graph, 80 points
- R, X graph, 80 points
- Smith (or polar) chart, 80 points
- TDR (Time Domain Reflectometer) graph

**Optional open-short-load calibration in SWR, R,X or Smith/polar chart graph modes**

### RF output:

- Connector type: N
- Output signal shape: rectangular, 0.1 to 200 MHz. For higher frequencies, harmonics of the main signal are used.
- Output power: -10 dBm (at 50 Ohm load)

### Power:

- Three 1.5 V, alkaline batteries, type AA
- Three 1.2 V, 1800...3000 mAh, Ni-MH batteries, type AA
- Max. 3 hours of continuous measurement, max. 2 days in stand-by mode when fully charged batteries are used
- When the analyzer is connected to a PC or a DC adapter with USB socket, it takes power from these sources

### Interface:

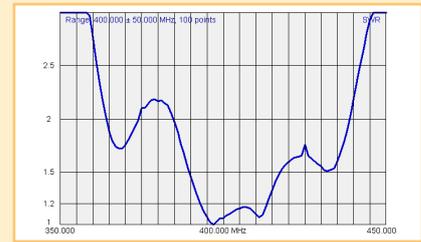
- 320x240 color TFT display
- 6x3 keys on the water-proof keypad
- Multilingual menus and help screens
- USB connection to a personal computer

**Dimensions:** 23x10x5.5 cm (9x4x2")

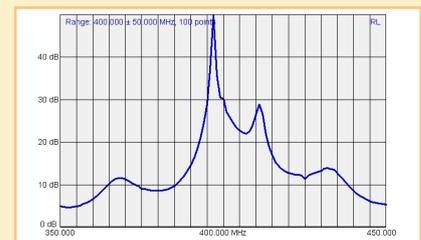
**Operating temperature:** 0...40 °C (32...104 °F)

**Weight:** 650g (23 Oz)

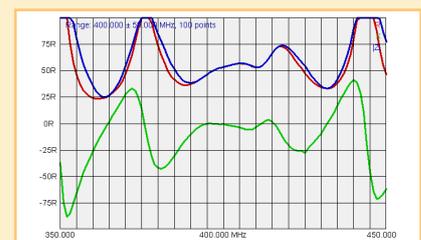
## AntScope software capabilities



SWR graph



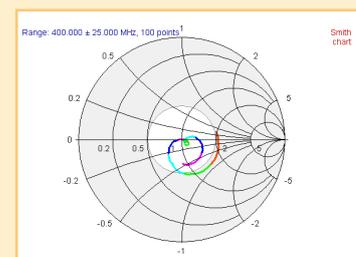
Return loss graph



R,X,Z graph,  
series model



Impulse response  
and step response graph



Smith chart