

# RigExpert AA-230 ZOOM



**RigExpert AA-230 ZOOM** is a new powerful antenna analyzer designed for testing, checking, tuning or repairing antennas and antenna feedlines.

Simple operation and fast, reliable and highly accurate measurements, as well as additional features such as computer interfacing make **AA-230 ZOOM** indispensable for professionals and hobbyists, who need an efficient measuring instrument.

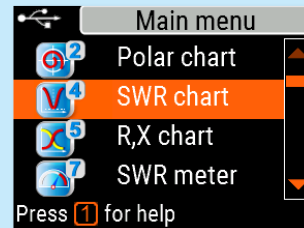
A built-in ZOOM capability makes graphical measurements especially effective.

An integrated Time Domain Reflectometer mode can be used to locate the precise location of a fault within the feedline system.

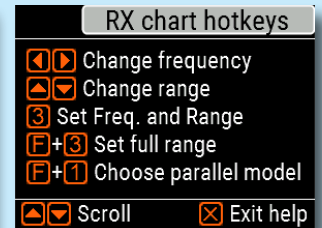
**The following tasks are easily accomplished by using AA-230 ZOOM:**

- 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 cable loss and characteristic impedance
- Measuring capacitance or inductance of reactive loads

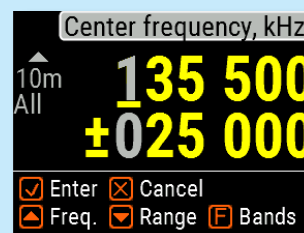
## Analyzer screen shots



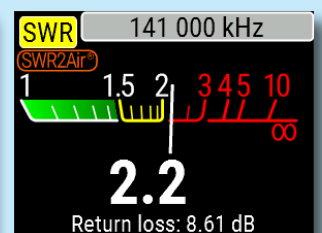
Main menu



Built-in help



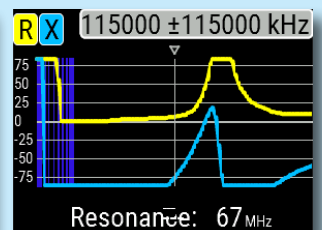
Freq and range entry



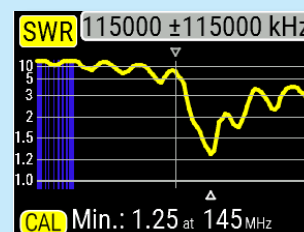
SWR meter



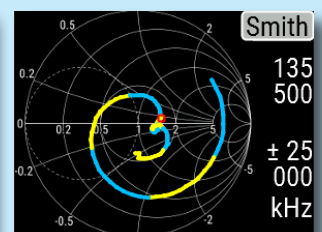
All parameters



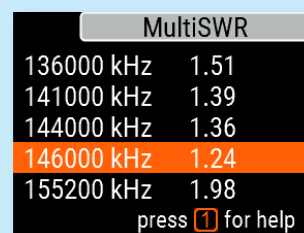
R,X chart



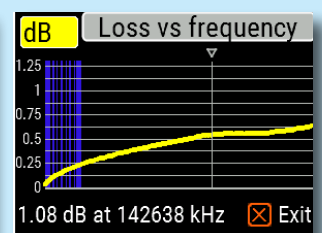
SWR chart



Smith chart



MultiSWR mode



Cable loss measurement

## Specifications

- Frequency range: 0.1 to 230 MHz
- 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 analog indicator
- 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 chart, 100 to 500 points
- R,X chart, 100 to 500 points
- Smith chart, 100 to 500 points
- Return loss chart, 100 to 500 points
- TDR (Time Domain Reflectometer) chart
- Cable tools (measuring cable loss and characteristic impedance)

## Optional open-short-load calibration

## RF output

- Connector type: N
- Output signal shape: square
- Output power: -10 dBm (at 50 Ohm load)

## Power

- Four 1.5V alkaline batteries, type AAA
- Four 1.2V Ni-MH batteries, type AAA
- Max. 4 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

- 290 × 220 color TFT display
- 6 × 3 keys on the water-proof keypad
- Multilingual menus and help screens
- USB connection to a personal computer

**Dimensions (W × H × D):** 82 × 182 × 32 mm  
(3.2 × 7.2 × 1.3 in)

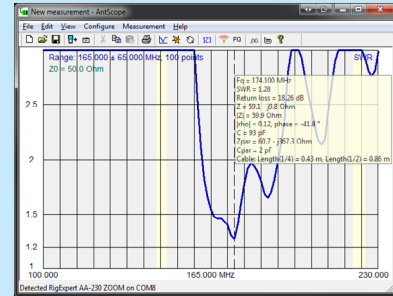
**Weight:** 236 g (8.32 oz) w/o batteries

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

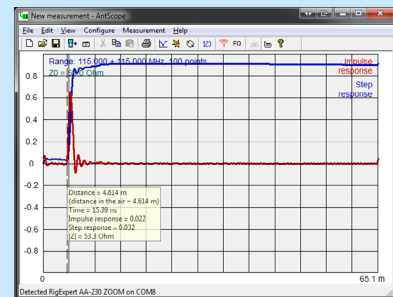
**Warranty:** 2 years

**RigExpert AA-230 ZOOM is made in Ukraine**

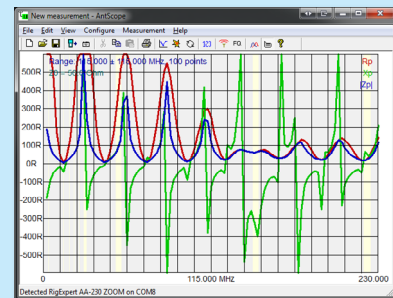
## AntScope software capabilities



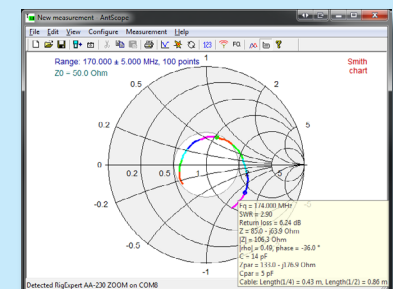
SWR chart



TDR chart



R,X,Z chart



Smith chart