



SARK-110

The SARK-110 is a completely new design concept for an Antenna Analyzer. This is a truly pocket size device, so you can take it anywhere. It offers a gorgeous 3" high-resolution, active-matrix color display that allows information-rich diagrams. The user interface has been designed to be intuitive and easy to use. On screen menus provide user guidance and the operation is mainly controlled by the two navigation keys. The graphical impedance displays provide a quick view of the antenna impedance characteristics on a user selected frequency range.

Its small size does not mean compromising the features and measurement performances. It has full vector measurement capability and accurately resolves the resistive, capacitive and inductive components of a load for frequencies up to 230 MHz. The accuracy is excellent over a broad range of impedances. The functionality of the SARK-110 is not restricted to antenna analysis, but it is a multifunction instrument featuring a Time Domain Reflectometer (TDR) mode which is intended for fault location and length determination in coaxial cables; as well as a programmable RF signal generator. The analyzer is intended for standalone operation but also operates connected to a personal computer in combination with the SARK Plots software for Windows and Android, further enhancing the capabilities of the instrument.

Typical applications include checking and tuning antennas, impedance matching, components test, cable fault location, measuring coaxial cable parameters, and cutting coaxial cables to precise electrical lengths. As a signal generator it is ideal for receiver calibration, sensitivity tests and signal tracing.

Specifications

Frequency range

0.1 – 230 MHz

Display

3" Color 400 x 200 pixels

RF Output

Connector type MCX (included MCX to SMA adaptor); output signal sinusoidal; output power -73 to -10 dBm; ± 30 -ppm stability

Architecture

Two narrow band detectors with 12-bit

ADC; reactance sign measurement

Modes

Scalar chart; Smith chart; Single frequency; Multiband chart; Time Domain Reflectometer; Signal generator; Band scan

Special Functions

Configurable presets for amateur bands; Markers; Save/load data; Deep sweep save with timer function; VSWR Audible feedback; Transmission line add/subtract; Circuit models; Automatic LC matching calculator

Connectivity

Mini-USB

Data Memory

2 MB for storage of measurements, configuration and firmware upgrades

Software

SARK Plots for Windows and Android

Power

Built-in 1000 mAh Li-Poly battery; 2.5-hour autonomy; charge from USB

Dimensions

98 x 60 x 14.5 (mm)