

## SARK-110-ULM



The SARK-110-ULM is the entry-level model of the SARK-110 antenna analyzer series. This is a truly pocket-size device, so you can take it anywhere. The built-in battery lasts up to eight hours on a single charge. It features a graphical display and intuitive user interface that makes it easy to operate.

The native measurement frequency range is between 0.1 and 160 MHz, but it operates up to 700 MHz with reduced performances. It has full vector measurement capability and accurately resolves the resistive, capacitive and inductive components of a load.

The functionality is not restricted to antenna analysis, but it is a multipurpose instrument featuring a Time Domain Reflectometer (TDR) mode which is intended for fault location and length determination in coaxial cables; as well as a RF signal generator. The analyzer is designed for standalone operation, but it can be controlled from your desktop using SARK Plots for Windows and from your tablet or smartphone using SARK Plots for Android through USB or short-range Bluetooth LE.

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 – 160 MHz and up to 700 MHz with reduced performances

#### Display

2" Monochrome 128 x 64 pixels

#### RF Output

Connector type SMA; output signal square; two selectable power levels (signal generator);  $\pm 30$ -ppm stability

#### Architecture

Two narrow band detectors with 12-bit

ADC; reactance sign measurement

#### Modes

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

#### Special Functions

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

#### Connectivity

Micro-USB and short-range Bluetooth Low Energy

#### 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; 8-hour autonomy; charge from USB

#### Dimensions

105 x 67 x 15 (mm)