

SARK-110

Quick Start Guide

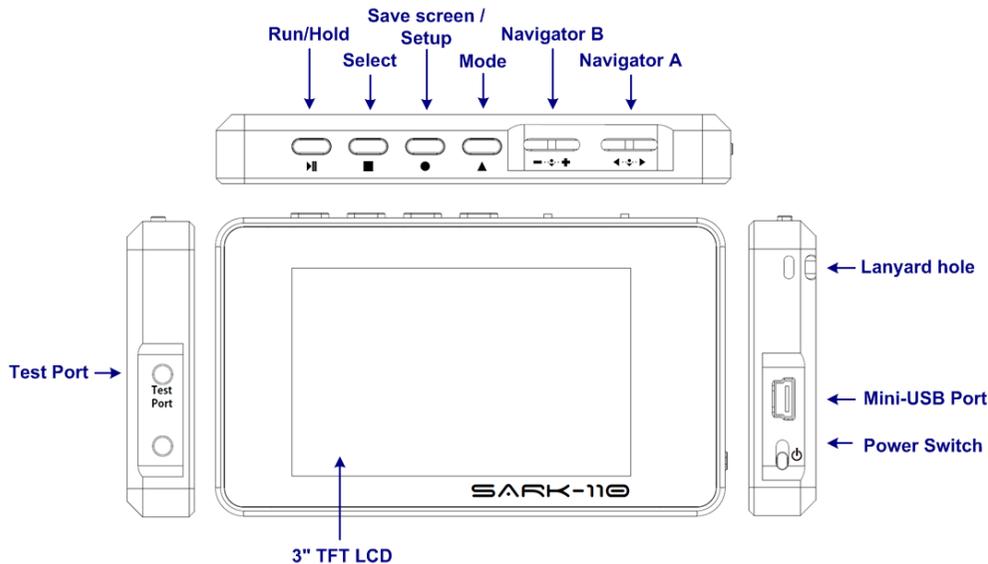
The SARK-110 antenna analyzer is a multipurpose, precision instrument capable of analyzing antennas or networks, generating or detecting signals and performing Time-Domain-Reflectometry (TDR) measurements on transmission lines, in a frequency range between 0.01 and 230 MHz.

Before you start

1. **Read all operation Precautions in the User's Manual**
2. This is a battery-operated device. Recharging prior use is recommended. Please read the "Battery Maintenance and Safety Guidelines" in the User's Manual to achieve the maximum battery life span and safely handle the battery.
3. The firmware is continuously evolving and being enhanced. We suggest updating to the latest firmware version available.
4. Use an off-the-shelf mini-USB cable (not included) for connecting to a computer. No software driver installation will be needed. For computer operation, install SARK Plots software for Windows.

Operation

The unit has a Test Port located on its left side, to connect to the device under test. This receptacle accepts straight MCX plug connector types. The product pack includes an MCX to SMA female connector adapter and a 20-cm SMA plug to SMA female cable adapter.



The USB port located on the right side facilitates connection to a personal computer for communication and internal battery charging using a compatible mini-USB cable (not included). The unit charges the internal battery when connected to USB. The internal battery charger automatically manages the charge cycle and stops the process when the battery is fully charged. The complete charge cycle takes around 3.5 hours.

Slide the Power Switch button located on the right side to the ON position to turn the unit on. An automatic power-off feature can be set for power-saving after a user-specified period of inactivity. Upon the first start, SARK-110 goes to Scalar mode automatically. Operational mode and configuration settings are preserved automatically between sessions, stored in internal memory.

Operation is controlled by four buttons and two navigation lever keys with push-button function located on the top side. An intuitive menu system makes simpler operation.

Means of input

Navigator A: used to navigate within the main menu.

Navigator B: used for changing the value of the active option in the main menu (for Freq, Span, Marker1, Marker2, LeftY and RightY) and to navigate within the popup submenus.

Run/Hold [▶ ||]: used to control the operating state of the SARK-110: running or holding.

Select [■]: used to activate the popup submenu associated with the highlighted option and for selecting the desired option within the popup submenu.

Save Screen / Setup [●]: used to take a screenshot of the current screen. A long press launches Setup menu.

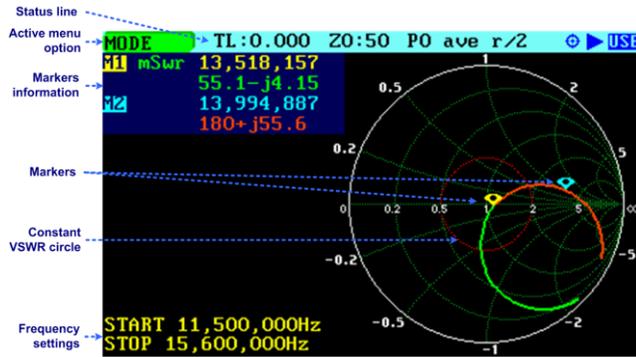
Mode [▲]: used to launch Mode menu.

Displays

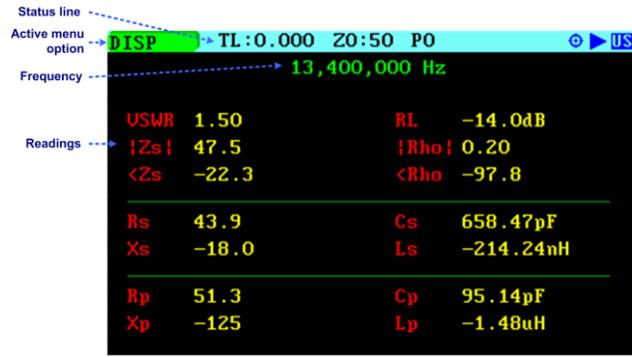
Scalar Chart Mode



Smith Chart Mode



Single Frequency Mode (Data display)



Band Scan Mode



Cable Test Mode



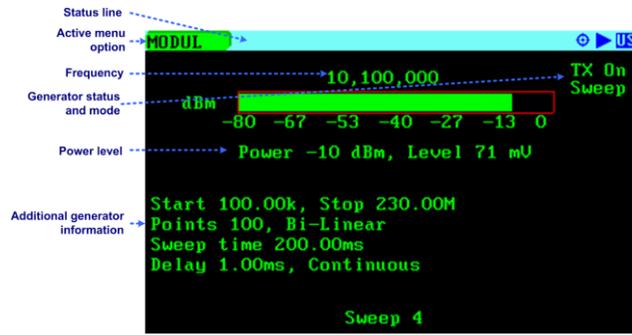
Multiband Mode



Field Mode



Signal Generator Mode



Status symbols meaning

Calibration status		Calibrated
		Not calibrated
Run / Hold status		Measurements in progress
		Measurements on hold
USB / Battery status		Device operating from USB
		Battery charge status when operating from battery
Disk		Disk write operation in progress
Zoom (Smith Chart)	Zoom:E	Zoom Extends
	Zoom:1o	Zoom 1 st Octave
	Zoom:1s	Zoom 1 st Sixteenth
	Zoom:nq	Zoom 1 st to 4 th (n) Quarter
Sampling	ds	Double sampling
	hs	Half sampling
Filter	av4	Average four samples
	av8	Average eight samples
Resolution	r2	Resolution 1/2
	r4	Resolution 1/4
	r8	Resolution 1/8

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