



R&S® ZNH FULL 2-PORT HANDHELD VECTOR NETWORK ANALYZER



The perfect choice for

Field Testing

R & D

Education

Manufacturing

Key specifications	
Frequency range	30 kHz to 4/8/18/26.5 GHz
No. of ports	2
Basic functions	DTF, one-port cable loss, VSWR, return loss, S_{11} , S_{21} , S_{12} , S_{22} (magnitude & phase)
Dynamic range	Up to 100 dB (typ.)
Max. port output power	Up to 0 dBm (meas.) ($300 \text{ kHz} \leq f \leq 24 \text{ GHz}$)
Trace Noise	Magnitude (RMS) : 0.0015 – 0.0040 dB (typ.) Phase (RMS) : 0.015° – 0.025° (typ.)
Measurement points	16,001

Your benefit	Features
Additional protection from overloading without an external attenuator	<ul style="list-style-type: none"> ▶ Built-in receiver step attenuator with attenuation from 0 dB to 15 dB in 5 dB steps
Directly calibrate DUTs with different input/output connectors	<ul style="list-style-type: none"> ▶ Using UOSM calibration
Simple to operate	<ul style="list-style-type: none"> ▶ Touchscreen allows intuitive operation using smartphone-like touch gestures ▶ Adjustable display brightness and backlit keypad for operation in bright sunlight or dim environments ▶ Wizard function automates test sequences so that recurring measurements can be performed quickly and easily without mistakes ▶ Battery operated with a battery life of four hours when fully charged
Simple to configure	<ul style="list-style-type: none"> ▶ Configurable dashboard with configuration overview menu for quick measurement setup and 70% less taps ▶ Flexible calibration approach ▶ Numerous calibration standards and calibration kits are supported. Calibration kit information can be easily entered manually with R&S® InstrumentView software
Simple to add value	<ul style="list-style-type: none"> ▶ Many functions are included as standard, such as one-port cable and antenna analysis and full S-parameters measurement ▶ Buy only what you need – options can be ordered independently and without prerequisites ▶ Four-receiver architecture

Light in weight. Heavy in performance

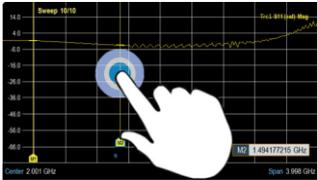
- ▶ Small form factor and portable; weighs only 3.1 kg
- ▶ Good dynamic range
- ▶ Excellent maximum port output power
- ▶ Low trace noise
- ▶ Highest number of measurement points supported in this class



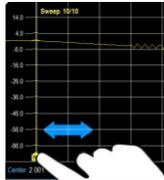
致力于电子测试、维护领域!

Simple to operate

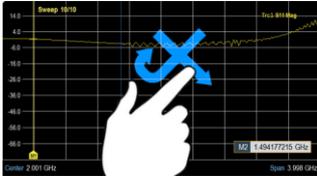
Intuitive operation using smartphone-like touch gestures



Add a marker by double-tapping



Move a marker by dragging the marker label



Delete a marker by crossing it out

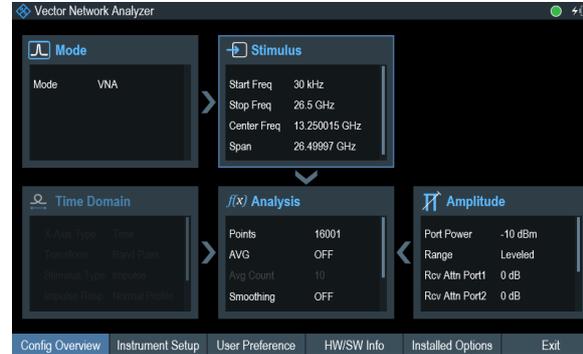
Preconfigure in three simple steps

Eliminate measurement errors due to wrong inputs

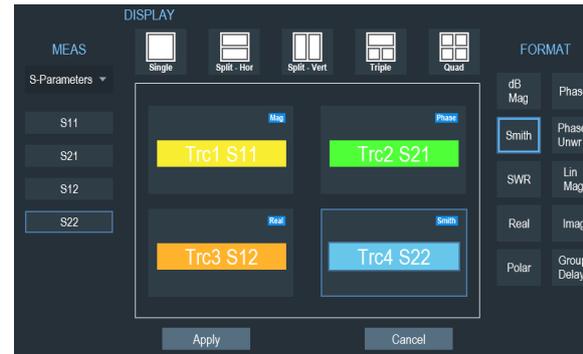
- 1 Project manager/expert creates the test sequences
- 2 Operator uses the wizard to execute the test sequences
- 3 Operator shows the measurement result to the project manager/expert for documentation

Simple to configure

Configurable dashboard for fast parameter setting



Just a few taps to configure the measurement display and format



Popular accessories

Description	Item
Calibration kit, type-N (m), 50 Ω (0 Hz to 18 GHz)	R&S®ZN-Z170
Calibration kit, type-N (f), 50 Ω (0 Hz to 18 GHz)	R&S®ZN-Z170
Calibration kit, 3.5 mm (m), 50 Ω (0 Hz to 26.5 GHz)	R&S®ZN-Z135
Calibration kit, 3.5 mm (f), 50 Ω (0 Hz to 26.5 GHz)	R&S®ZN-Z135
Calibration unit, (2 MHz to 4 GHz)	R&S®ZN-Z103
Calibration unit, (1 MHz to 6 GHz)	R&S®ZN-Z103
Soft carrying bag	R&S®HA-Z220
Carrying holster	R&S®HA-Z322



Feature highlights

- ▶ Unknown through calibration (UOSM) is possible
- ▶ Various calibration kits are supported
- ▶ Calibration kit information can be entered manually with R&S®InstrumentView software

