ROHDE&SCHWARZ

Make ideas real

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 kHz ≤ f ≤ 24 GHz)
Trace Noise	Magnitude (RMS) : 0.0015 − 0.0040 dB (typ.) Phase (RMS) : 0.015° − 0.025° (typ.)
Measurement points	16,001

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

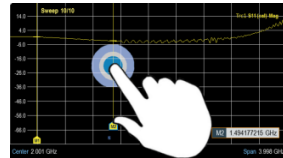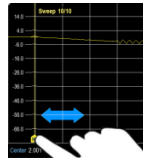| Your benefit	Features
Additional protection from overloading without an external attenuator	► Built-in receiver step attenuator with attenuation from 0 dB to 15 dB in 5 dB steps
Directly calibrate DUTs with different input/output connectors	► Using UOSM calibration
Simple to operate	► Touchscreen allows 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 or four hours when fully charged
Simple to configure	► 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	► 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

For price and more information:
http://www.rohde-schwarz.com/product/ZNH
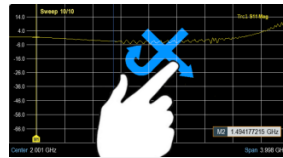
Simple to operate

Intuitive operation using smartphone-like touch gestures

Add a marker by double-tapping
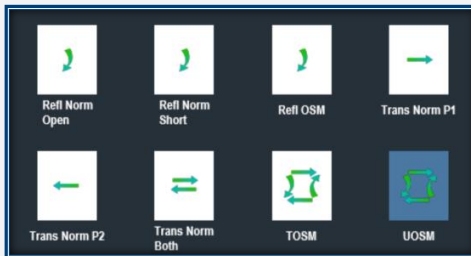
Move a marker by dragging the marker label

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

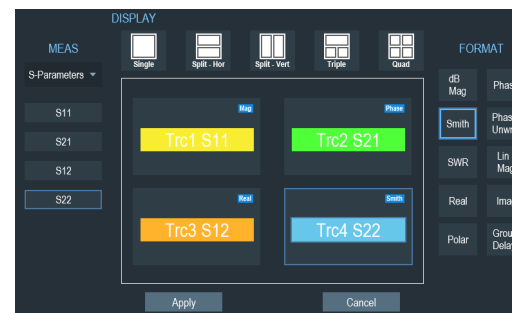**3** Operator shows the measurement result to the project manager/expert for documentation

Simple to configure

Configurable dashboard for fast parameter setting

Vector Network Analyzer

Mode
Mode   VNA

Stimulus
Start Freq   30 kHz
Stop Freq   26.5 GHz
Center Freq   13.250015 GHz
Span   26.49997 GHz

Time Domain
X-Avg Type   Time
Transform   Band Pass
Stimulus Type Impulse
Response Reso Normal Profile

f(x) Analysis
Points   16001
AVG   OFF
Avg Count   10
Smoothing   OFF

Amplitude
Port Power   -10 dBm
Range   Leveled
Rcv Attn Port1 0 dB
Rcv Attn Port2 0 dB

Config Overview | Instrument Setup | User Preference | HW/SW Info | Installed Options | Exit

Just a few taps to configure the measurement display and format

MEAS
S-Parameters
S11
S21
S12
S22

DISPLAY
Single | Split - Hor | Split - Vert | Triple | Quad

Mag — Trc1 S11
Phase — Trc2 S21
Real — Trc3 S12
Smith — Trc4 S22

FORMAT
dB Mag | Phase
Smith | Phase Unwr
SWR | Lin Mag
Real | Imag
Polar | Group Delay

Apply | Cancel

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

Refl Norm Open | Refl Norm Short | Refl OSM | Trans Norm P1

Trans Norm P2 | Trans Norm Both | TOSM | UOSM

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

Rohde & Schwarz Representative