

R&S®ZVH Cable and Antenna Analyzer



The new benchmark for efficiency in the field
The R&S®ZVH cable and antenna analyzer is rugged, handy and designed for use in the field. Its low weight and simple operation make it indispensable for anyone who needs an efficient measuring instrument outdoors for the installation and maintenance of antenna systems.

Key facts

- ▮ Perfect tool for cable and antenna installation
- ▮ Frequency range from 100 kHz to 3.6 GHz or 8 GHz
- ▮ Easy operation with user-configurable test sequences (wizard)
- ▮ 100 dB (typ.) dynamic range for filter and antenna isolation measurements
- ▮ Built-in DC voltage supply (bias) for active components such as amplifiers
- ▮ Distance-to-fault, reflection and cable loss measurements
- ▮ Vector network analyzer, vector voltmeter, transmission measurement, spectrum analyzer and power meter option
- ▮ Saving of measurement results on SD memory card or USB memory stick
- ▮ Easy-to-replace lithium-ion battery for up to 4.5 h of operation
- ▮ Rugged, splashproof housing for rough work in the field
- ▮ Easy handling due to low weight (3 kg/6.6 lb with battery) and easy-to-reach function keys

Models

Designation	Type	Order No.
Cable and Antenna Analyzer, 100 kHz to 3.6 GHz	R&S®ZVH4	1309.6800.24
Cable and Antenna Analyzer, 100 kHz to 8 GHz	R&S®ZVH8	1309.6800.28

Application	How the R&S®ZVH meets your needs
Installation of transmit systems (for mobile radio, broadcasting or radiocommunications)	<ul style="list-style-type: none"> ▮ Cable and antenna testing ▮ Wizard and reporting tool for optimized workflow ▮ Return loss and distance-to-fault measurements ▮ Two-port transmission test capability (S_{21}) for testing cables, filters and amplifiers ▮ Built-in DC voltage supply for measuring active components such as tower mounted amplifiers (TMA) ▮ Position finding using GPS receiver
Maintenance of transmit systems	<ul style="list-style-type: none"> ▮ Cable and antenna testing ▮ Full two-port network analysis ▮ Interference hunting with spectrogram ▮ Power measurements with R&S®NRP-Zxx power sensors ▮ Support of directional power sensors to measure transmitter output power and antenna matching simultaneously ▮ RF spectrum measurements (channel power, OBW, harmonics, AM modulation depth, ACLR, etc.) ▮ Position finding using GPS receiver ▮ R&S®ZVHView software for easy documentation
Field use	<ul style="list-style-type: none"> ▮ Rugged housing, compact size and low weight ▮ Easy to use ▮ SD memory card or USB memory stick for storing thousands of measurement results ▮ Excellent handling in the field due to portrait form factor ▮ Battery-operated with long battery operating time and easy-to-replace battery