

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

ROHDE & SCHWARZ

Rohde & Schwarz ZVH8 Cable & Antenna Analyzer

Rohde & Schwarz ZVH8 Cable and Antenna Analyzer 100 kHz to 8 GHz The R&S ZVH8 is a handheld cable and antenna analyzer covering 100 kHz to 8 GHz (order 1309.6800.28). Standard functions are reflection (S11), distance-to-fault, and one-port cable loss. Output power is 0 dBm to minus 40 dBm in 1 dB steps. Directivity is greater than 43 dB nominal to 3 GHz and greater than 31 dB nominal from 6 GHz to 8 GHz. Weight is less than 3 kg including battery. Optional ZVH-K42 vector network analysis and ZVH-K1 spectrum analysis expand the instrument. The R&S ZVH8 is a handheld cable and antenna analyzer covering 100 kHz to 8 GHz (order 1309.6800.28). Standard functions are reflection (S11), distance-to-fault, and one-port cable loss. Output power is 0 dBm to minus 40 dBm in 1 dB steps. Directivity is greater than 43 dB nominal to 3 GHz and greater than 31 dB nominal from 6 GHz to 8 GHz. Weight is less than 3 kg including battery. Optional ZVH-K42 vector network analysis and ZVH-K1 spectrum analysis expand the instrument.



MODEL

Rohde & Schwarz ZVH8

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

ZVH8

LISTING

<https://aumictechlabs.com/products/zvh8-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Rohde & Schwarz ZVH8 is a portable cable and antenna analyzer engineered for field installation, maintenance, and commissioning of antenna systems and cable networks. Operating

across 100 kHz to 8 GHz, it delivers comprehensive one-port and optional two-port vector network analysis with 100 dB dynamic range and 50 Ω impedance. The instrument integrates reflection measurement, cable fault location (Distance-to-Fault), and one-port cable loss as standard functions, with advanced capabilities including vector voltmeter, terminating power measurement, directional power analysis, spectrum and spectrogram measurement, transmission analysis, and pulse measurement with wideband sensors.

Technical Specifications

Frequency Range: 100 kHz to 8 GHz **Dynamic Range:** 100 dB (typical) **Output Power:** 0 dBm to -40 dBm (nominal); +10 dBm maximum **Impedance:** 50 Ω **VSWR:** <2 (nom.) for 100 kHz to 300 kHz; <1.5 (nom.) for 300 kHz to 1 GHz **Built-in DC Supply (Bias):** 12 V to 32 V (1 V steps), 500 mA maximum; External input to 50 V, 600 mA **Display:** 6.5" color LCD, VGA resolution with monochrome mode **Dimensions:** 194 × 300 × 69 mm (W × H × D) **Weight:** Approximately 3 kg with battery **Battery:** Li-ion, user-replaceable, 4.5-hour runtime **Power Input:** 100–240 V AC (via optional supply)

Key Features

Splash-proof housing rated for field deployment One-port reflection, cable fault location, and loss measurement standard Optional two-port vector network analysis and vector voltmeter Built-in DC bias supply for active components with programmable voltage (12–32 V, 500 mA) N female connectors, 50 Ω test ports Integrated power measurement with optional sensors and K9 option Spectrum analysis, spectrogram, and pulse analysis capabilities Optional GPS receiver for position documentation

Measurement Functions

Standard: Reflection, distance-to-fault, one-port cable loss **Optional:** Two-port VNA, vector voltmeter, terminating and directional power measurement, spectrum and spectrogram analysis, transmission measurement, pulse analysis, channel power metering

Compatibility & Integration

Interfaces: LAN, USB, SD card, USB memory **Remote Control:** LAN or USB; R&S®ZVHView software, R&S®InstrumentView app, MobileView (smartphone/tablet) **Accessories:** Li-ion battery pack, USB cable, optional GPS (R&S®HA-Z240), optional AC supply (R&S®HA-Z201)

Features & description

From manufacturer datasheet

Features

- Rugged handheld, 6.5 inch VGA color LCD
- N-female 50 ohm test ports; DC bias +12 V to +32 V internal
- Optional vector voltmeter (K45) and transmission (K39/K42)
- USB / LAN and ZVHView PC software
- Power-sensor support via Binder or USB

Applications

- Field installation and maintenance of antenna systems
- Distance-to-fault location on feeders (3 m to 1500 m display)
- One-port cable-loss and VSWR checks
- Optional two-port transmission / VNA and spectrum analysis
- Tower and rooftop work on battery (up to 4.5 h with 6.75 Ah pack)

ZVH8 Characteristics / Specifications

PARAMETER	VALUE
Model	ZVH8
Manufacturer	Rohde & Schwarz
Instrument Type	Handheld cable and antenna analyzer
Alias	ZVH 8; R&S ZVH8
Order Number	1309.6800.28
Frequency Range	100 kHz to 8 GHz
Frequency Resolution	1 Hz
System Impedance	50 ohm
Test Port Connector	N female
Output Power	0 dBm to minus 40 dBm in 1 dB steps
Measurement Points	101, 201, 401, 601, 631, 801, 1001, 1201
DTF Display Range	3 m to 1500 m
DTF Resolution	1.58 x velocity factor / span (meters)
Directivity 100 kHz to 3 GHz	greater than 43 dB nominal
Directivity 3 GHz to 3.6 GHz	greater than 37 dB nominal
Directivity 3.6 GHz to 6 GHz	greater than 37 dB nominal
Directivity 6 GHz to 8 GHz	greater than 31 dB nominal
Transmission Dynamic 300 kHz to 2.5 GHz	greater than 80 dB, typ. 100 dB (with K39/K42)
Port VSWR 300 kHz to 1 GHz	less than 1.5 nom.
Port VSWR 1 GHz to 6 GHz	less than 2 nom.
Port VSWR 6 GHz to 8 GHz	less than 3 nom.
Reverse CW Power Rating	+20 dBm (0.1 W)
Reverse DC Voltage Rating	50 V
Internal Bias Voltage	+12 V to +32 V in 1 V steps
Internal Bias Current	500 mA max

PARAMETER	VALUE
Display	6.5 inch color LCD VGA
Battery HA Z204 4.5 Ah	up to 3 h
Battery HA Z206 6.75 Ah	up to 4.5 h
Dimensions	194 × 300 × 69 mm (144 mm with bumpers)
Weight	less than 3 kg
External Reference	10 MHz at 0 dBm
Sibling ZVH4 Range	100 kHz to 3.6 GHz, 1309.6800.24 Notes Specs from the R&S ZVH Cable and Antenna Analyzer specifications. Confirm K1 spectrum, K42 VNA, K39 transmission, and K45 vector-voltmeter licenses. This file is the 8 GHz ZVH8, not ZVH4.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
Specifications	
PARAMETER	VALUE
Model	ZVH8
Manufacturer	Rohde & Schwarz
Instrument Type	Handheld cable and antenna analyzer
Alias	ZVH 8; R&S ZVH8
Order Number	1309.6800.28
Frequency Range	100 kHz to 8 GHz
Frequency Resolution	1 Hz
System Impedance	50 ohm
Test Port Connector	N female
Output Power	0 dBm to minus 40 dBm in 1 dB steps
Measurement Points	101, 201, 401, 601, 631, 801, 1001, 1201
DTF Display Range	3 m to 1500 m
DTF Resolution	1.58 x velocity factor / span (meters)
Directivity 100 kHz to 3 GHz	greater than 43 dB nominal
Directivity 3 GHz to 3.6 GHz	greater than 37 dB nominal
Directivity 3.6 GHz to 6 GHz	greater than 37 dB nominal
Directivity 6 GHz to 8 GHz	greater than 31 dB nominal
Transmission Dynamic 300 kHz to 2.5 GHz	greater than 80 dB, typ. 100 dB (with K39/K42)
Port VSWR 300 kHz to 1 GHz	less than 1.5 nom.
Port VSWR 1 GHz to 6 GHz	less than 2 nom.
Port VSWR 6 GHz to 8 GHz	less than 3 nom.
Reverse CW Power Rating	+20 dBm (0.1 W)
Reverse DC Voltage Rating	50 V
Internal Bias Voltage	+12 V to +32 V in 1 V steps
Internal Bias Current	500 mA max
Display	6.5 inch color LCD VGA

PARAMETER	VALUE
Battery HA Z204 4.5 Ah	up to 3 h
Battery HA Z206 6.75 Ah	up to 4.5 h
Dimensions	194 x 300 x 69 mm (144 mm with bumpers)
Weight	less than 3 kg
External Reference	10 MHz at 0 dBm
Sibling ZVH4 Range	100 kHz to 3.6 GHz, 1309.6800.24

Notes

Specs from the R&S ZVH Cable and Antenna Analyzer specifications. Confirm K1 spectrum, K42 VNA, K39 transmission, and K45 vector-voltmeter licenses. This file is the 8 GHz ZVH8, not ZVH4.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 13, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.