ROHDE&SCHWARZ
Make ideas real

R&S®SCOPE RIDER RTH
Lab performance in a rugged, portable design

The perfect multipurpose tool for the lab and in the field

When debugging embedded devices in the lab or analyzing complex problems in the field, the R&S®Scope Rider RTH offers the performance and capabilities of a lab oscilloscope with the form factor and ruggedness of a battery-operated handheld device.

The perfect choice for

Electrical and electromechanical installation and maintenance	Debugging and testing advanced power electronics
Electronic field service and maintenance	Education

Key specifications

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Bandwidth	60 MHz, 100 MHz, 200 MHz, 350 MHz, 500 MHz
Channels	2/4
Max. sample rate	5 Gsample/s
Max. memory	500 ksample, 50 Msample segmented memory
Acquisition rate	50 000 waveforms/s
ADC resolution	10 bit
Isolated channels	CAT IV 600 V/CAT III 1000 V
IP rating	IP51, in line with IEC 60529
Display	7.0" color touchscreen, 800 × 480 pixel
Mixed signal option	8 channels, 250 MHz, 1.25 Gsample/s, 125 ksample

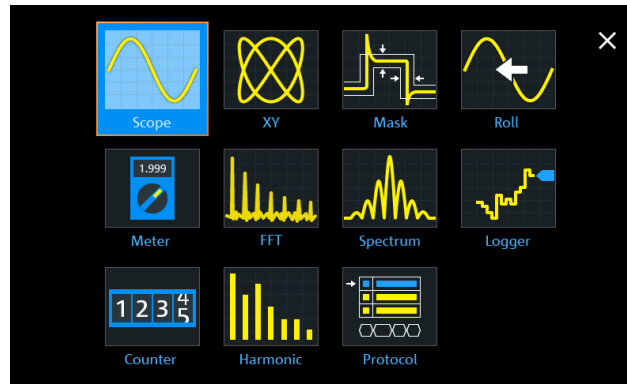| Your benefit	Features
Superior performance	▶ Deep memory (up to 50 Msample) and high resolution (5 Gsample/s) ▶ Fast acquisition rate: 50 000 waveforms/s ▶ 10-bit ADC converter ▶ Excellent sensitivity: 2 mV/div to 100 V/div ▶ Up to 200 V offset range ▶ 37 automatic measurement functions ▶ History and segmented memory mode ▶ Isolated digital multimeter (in 2 Channel model)
Outstanding protection and excellent connectivity	▶ Isolated channels: CAT IV 600 V/CAT III 1000 V ▶ IP51 housing that meets military requirements ▶ Wireless LAN and Ethernet for web based remote control and quick data access
8 instruments in one handheld package	▶ Lab performance oscilloscope ▶ Logic analyzer ▶ Protocol analyzer ▶ Data logger ▶ Digital multimeter[1] ▶ Spectrum analyzer ▶ Harmonics analyzer ▶ Frequency counter

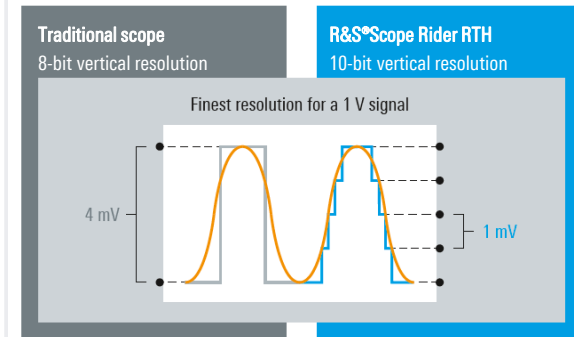[1] Additional multimeter channel in two-channel model.

The high-speed acquisition system of the R&S®Scope Rider RTH captures up to 50 000 waveforms/s and uncovers rare and unexpected signal anomalies.
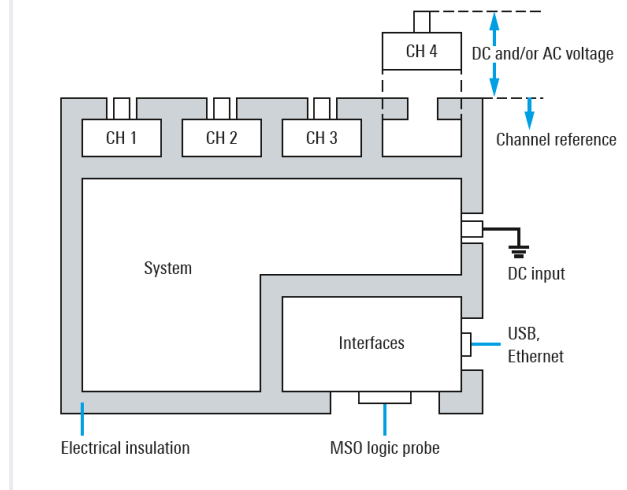

8 instruments in one – select the instrument you need at the push of a button.

10-bit A/D converter: uncovers even small signal details

Traditional scope	R&S®Scope Rider RTH
8-bit vertical resolution	10-bit vertical resolution

Finest resolution for a 1 V signal

4 mV

1 mV

Double insulation for maximum safety

CH 4 — DC and/or AC voltage

Channel reference

CH 1 CH 2 CH 3

System

Interfaces

DC input

USB, Ethernet

Electrical insulation   MSO logic probe

Popular options/accessories

Hardware options	Item
Mixed signal option, 250 MHz, 8 digital channels	R&S®RTH-B1
Software options	
I^{2}C/SPI serial decoding	R&S®RTH-K1
UART/RS-232/RS-422/RS-485 serial decoding	R&S®RTH-K2
CAN/LIN serial triggering and decoding	R&S®RTH-K3
Spectrum analysis	R&S®RTH-K18
Advanced triggering	R&S®RTH-K19
Frequency counter	R&S®RTH-K33
Harmonics analysis	R&S®RTH-K34
User scripting	R&S®RTH-K38
Wireless LAN	R&S®RTH-K200 [1] / R&S®RTH-K200US [1]
Web interface remote control	R&S®RTH-K201
Passive probes	
500 MHz, 10:1, isolated, 600V CAT IV, 1000 V CAT III	R&S®RT-ZI10
500 MHz, 100:1, isolated, 600V CAT IV, 1000 V CAT III	R&S®RT-ZI11
Current probes	
100 kHz, 30 A, AC/DC	R&S®RT-ZC03
Accessories	
Soft carrying bag	R&S®HA-Z220
Spare battery	R&S®HA-Z306

[1] regional restrictions apply

Languages supported: English, German, French, Spanish, Russian, simplified and traditional Chinese, Korean and Japanese.