R&S®Scope Rider (R&S®RTH)
Lab performance in a rugged and portable design

The perfect choice for

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

Key specifications

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 (optional)
Acquisition rate	50 000 waveforms/s
ADC resolution	10 bits
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

▷ For more information, visit
www.rohde-schwarz.com/catalog/RTH

The perfect multipurpose tool for the lab or in the field.

When debugging embedded devices in the lab or analyzing complex problems in the field, the R&S®Scope Rider offers the performance and capabilities of a lab oscilloscope as well as the form factor and ruggedness of a battery-operated handheld device.
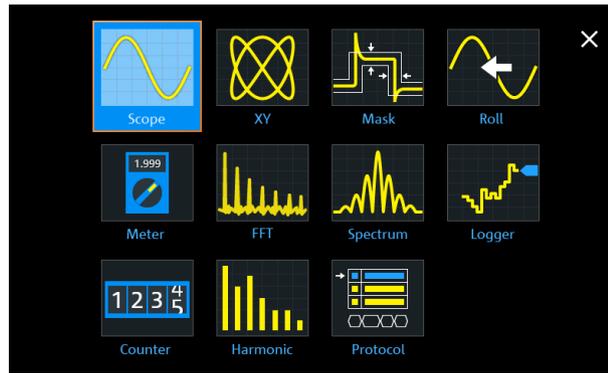
Your benefit	Features
Superior performance	▮ Deep memory (up to 50 Msample) and high resolution (5 Gsample/s) ▮ Fast acquisition rate: 50 000 waveforms/s ▮ 10-bit A/C converter ▮ Excellent sensitivity: 2 mV/div to 100 V/div ▮ Up to 200 V offset range ▮ 33 automatic measurement functions
Outstanding protection 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.
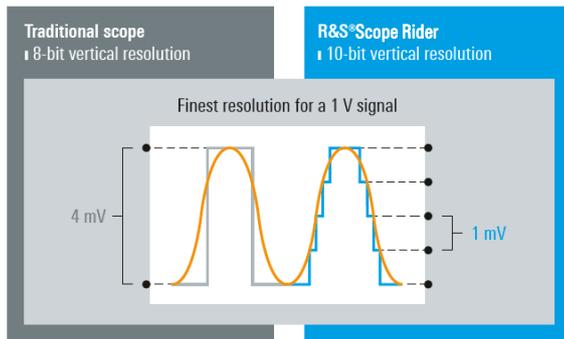
ROHDE & SCHWARZ

The high-speed acquisition system of the R&S®Scope Rider captures up to 50 000 waveforms/s and uncovers rare and unexpected signal anomalies.
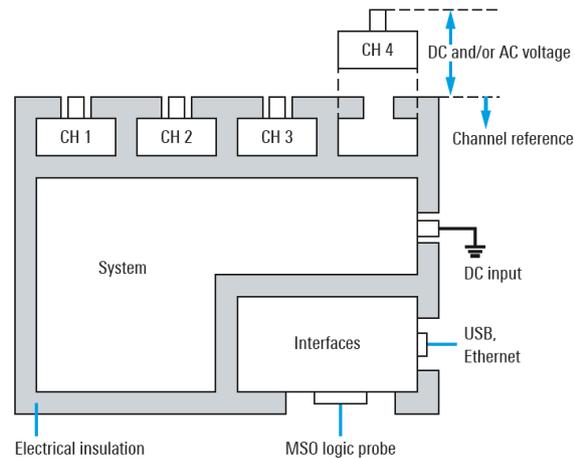
8 instruments in one – select the instrument you need at the push of a button.

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

Traditional scope	R&S®Scope Rider
▮ 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

CH 1   CH 2   CH 3

Channel reference

System

DC input

Interfaces

USB, Ethernet

Electrical insulation

MSO logic probe

Popular options/ accessories

Hardware Options	Type
Mixed signal option, 250 MHz, 8 digital channels	R&S®RTH-B1
Software options	
I²C/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
History/segmented memory	R&S®RTH-K15
Spectrum analysis	R&S®RTH-K18
Advanced triggering	R&S®RTH-K19
Frequency counter	R&S®RTH-K33
Harmonics analysis	R&S®RTH-K34
Wireless LAN	R&S®RTH-K200/ R&S®RTH-K200US
Web interface remote control	R&S®RTH-K201
Passive probes	
500 MHz, 10:1, isolated, 600V CATIV, 1000V CAT III	R&S®RT-ZI10
500MHz, 100:1, isolated, 600V CAT IV, 1000V CAT III	R&S®RT-ZI11
Current probes	
100 kHz, 30A, AC/DC	R&S®RT-HZ050
Accessories	
Soft carrying bag	R&S®HA-Z220
Spare battery	R&S®HA-Z306

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

Rohde & Schwarz Representative