



# R&S® SCOPE RIDER RTH

## Lab performance in a rugged, 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 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 x 480 pixel             |
| Mixed signal option | 8 channels, 250 MHz, 1.25 Gsample/s, 125 ksample    |

### 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.

| Your benefit                                      | Features  |
|---|---|
| Superior performance                              | <ul style="list-style-type: none"> <li>▶ Deep memory (up to 50 Msample) and high resolution (5 Gsample/s)</li> <li>▶ Fast acquisition rate: 50 000 waveforms/s</li> <li>▶ 10-bit A/C converter</li> <li>▶ Excellent sensitivity: 2 mV/div to 100 V/div</li> <li>▶ Up to 200 V offset range</li> <li>▶ 37 automatic measurement functions</li> </ul> |
| Outstanding protection and excellent connectivity | <ul style="list-style-type: none"> <li>▶ Isolated channels: CAT IV 600 V/CAT III 1000 V</li> <li>▶ IP51 housing that meets military requirements</li> <li>▶ Wireless LAN and Ethernet for web based remote control and quick data access</li> </ul>   |
| 8 instruments in one handheld package             | <ul style="list-style-type: none"> <li>▶ Lab performance oscilloscope</li> <li>▶ Logic analyzer</li> <li>▶ Protocol analyzer</li> <li>▶ Data logger</li> <li>▶ Digital multimeter<sup>1)</sup></li> <li>▶ Spectrum analyzer</li> <li>▶ Harmonics analyzer</li> <li>▶ Frequency counter</li> </ul>   |

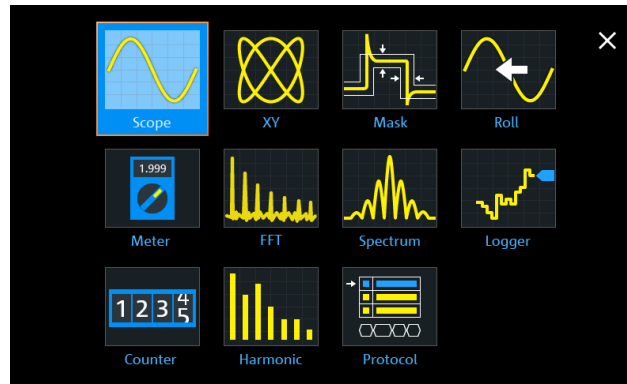
<sup>1)</sup> Additional multimeter channel in two-channel model.



For price and more information:  
[www.rohde-schwarz.com/catalog/RTH](http://www.rohde-schwarz.com/catalog/RTH)

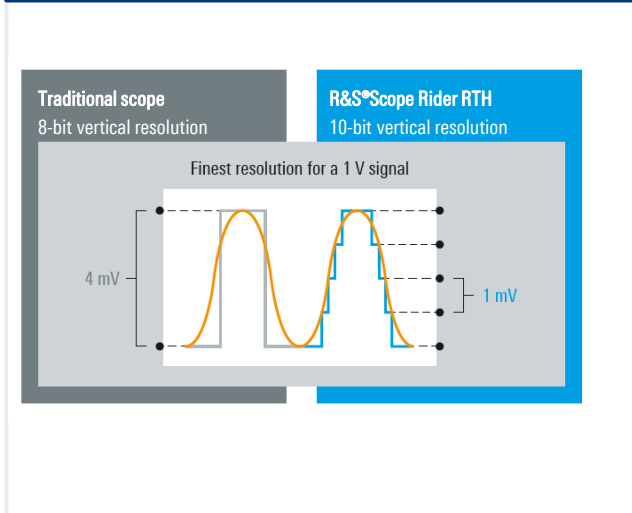


The high-speed acquisition system of the R&S®Scope Rider RTH captures up to 50 000 waveforms/s and uncovers rare and unexpected signal anomalies.

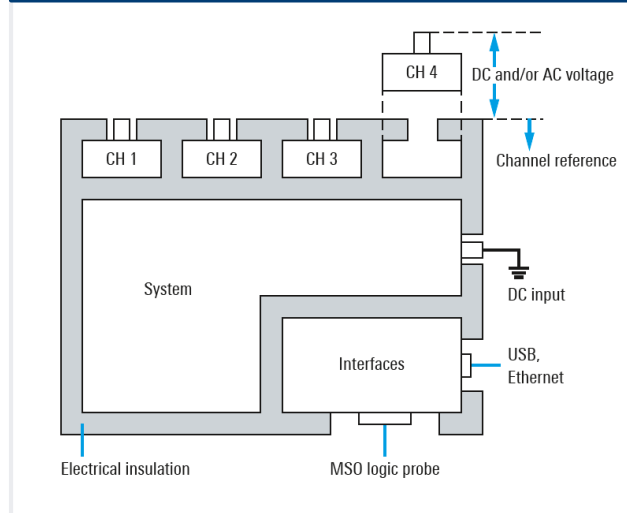


8 instruments in one – select the instrument you need at the push of a button.

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



### Double insulation for maximum safety



| Popular options/accessories                         |                                 |
|---|---------------------------------|
| Hardware options                                    | Item                            |
| SSD hard disk                                       | R&S®RTE-B18                     |
| Mixed signal option, 250 MHz, 8 digital channels    | R&S®RTH-B1                      |
| Software options                                    |                                 |
| I <sup>2</sup> 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                      |
| 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                     |
| User scripting                                      | R&S®RTH-K38                     |
| Wireless LAN  | R&S®RTH-K200/<br>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-ZC03                     |
| 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.