

R&S®Scope Rider RTH Handheld Oscilloscope



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®ScopeRider RTH offers the performance and capabilities of a lab oscilloscope as well as the form factor and ruggedness of a battery-operated handheld device.

Model overview

Model	Bandwidth	Channel (analog/digital)	Sample rate (analog/digital)	Memory depth	Update rate	Vertical resolution
R&S®RTH1002	60 MHz	2/8 (optional)	5 Gsample/s/1.25 Gsample/s	up to 12.5 Msample	50 000 waveforms/s	up to 10 bit
R&S®RTH1012	100 MHz					
R&S®RTH1022	200 MHz					
R&S®RTH1032	350 MHz					
R&S®RTH1052	500 MHz					
R&S®RTH1004	60 MHz	4/8 (optional)	5 Gsample/s/1.25 Gsample/s	up to 12.5 Msample	50 000 waveforms/s	up to 10 bit
R&S®RTH1014	100 MHz					
R&S®RTH1024	200 MHz					
R&S®RTH1034	350 MHz					
R&S®RTH1054	500 MHz					

Important facts

Specification	R&S®Scope Rider RTH	Why this is important
Update rate	50 000 waveforms/s	The faster the update rate, the faster users can find infrequent events.
Memory depth	up to 12.5 Msample	Allows capture of the longest period of time at high sample rate.
Integration	DMM, MSO, protocol analyzer, data logger	Allows debugging of low speed serial devices and mixed signal designs.
ADC resolution	10 bit	Allows users to see more detail and smaller signals.
Display	7", 800 × 480, touchscreen	Makes it easier to operate and see information on the display.

Scope of delivery

- ▶ User manual
- ▶ Power cord
- ▶ USB cable
- ▶ Passive probes for each channel

Recommended options/accessories

Description	Type
Hardware options (plug-in)	
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
History/segmented memory	R&S®RTH-K15

Recommended options/accessories

Description	Type
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/ R&S®RTH-K200US
Web interface remote control	R&S®RTH-K201
Probes	
Passive probe, 500 MHz, 10:1, isolated, 600 V CAT IV, 1000 V CAT III	R&S®RT-ZI10
Passive probe, 500 MHz, 100:1, isolated, 600 V CAT IV, 1000 V CAT III	R&S®RT-ZI11
Current probe, 100 kHz, 30 A, AC/DC	R&S®RT-ZC03

