

R&S® Spectrum Rider Spectrum Analyzer

Small form factor to handle large tasks



The perfect choice for

Interference hunting

EMI debugging/
RF design validation

Spectrum monitoring

Training

Key specifications

Frequency	5 kHz to 2/3/4 GHz
Resolution bandwidths	1 Hz to 3 MHz
DANL @ 3 GHz (preamp on)	< -163 dBm
Phase noise, 100 kHz offset	105 dBc/Hz
Battery operation time	up to 8 hours
Weight	2.5 kg

The perfect analysis tool for lab and field environments

- Illuminated keypad for dim environments
- Large buttons for easy operation with gloves
- Lightest handheld spectrum analyzer on the market at 5.5 lbs (30 % lighter than competitor models)
- 8 hours of battery life (almost twice as long as competitor models)
- Dust and drip water protected (IP51)
- User-friendly configuration overview menu

Your benefit

Battery life twice that of today's handheld spectrum analyzers

Smartphone style capacitive touchscreen; also available with traditional interface

Buy only what you need; upgrade later without returning analyzer for servicing

Features

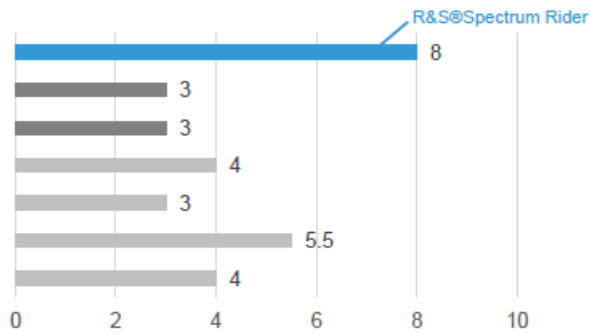
Up to 8 hours battery life

- 7.5 inch antiglare capacitive color touchscreen
- On-screen keyboard
- Smartphone-like gestures
- Adjustable display brightness
- Backlit large button keypad
- Multifunction rotary knob

- 2 GHz base model
- 3 GHz and 4 GHz keycode options
- Pre-amplifier keycode options
- Channel power meter keycode option

► For more information, visit www.rohde-schwarz.com/catalog/FPH

Operation time (hr)

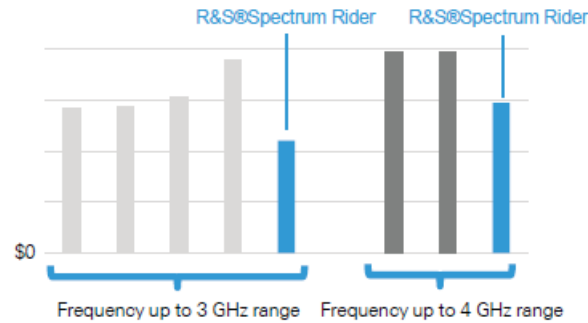


This instrument features an innovative fanless concept – part of a ruggedized design that protects it from dust and water. In addition, the MTBF is lower than that of other instruments with a fan. Designed with power optimization in mind, the R&S Spectrum Rider consumes less power than the competition, allowing it to operate a full 8-hour day before the battery needs recharging.



The backlit keypad enables you to use the analyzer in all lighting conditions.

Price comparison



Options are available to support the different measurements you need. All options can be easily added via keycodes without sending the instrument back to the service center. Calibration and alignment are also not required. Adding options to R&S Spectrum Rider is a simple, time-saving and cost-saving approach.

Future-friendly, extendable frequency range

Unlike spectrum analyzers with fixed frequency ranges, the R&S Spectrum Rider's range can be upgraded if needed – up to 4 GHz. There's no need to use or carry additional instruments.

5 kHz 2 GHz 3 GHz 4 GHz

Other products to consider

- The R&S FPH supports all R&S NRP family models up to 110 GHz
- Consider the R&S FSH if demodulation is needed, or R&S FSH or R&S ZVH if distance to fault or a tracking generator is necessary.

Ordering information

Choose your model and frequency

Base model	
R&S Spectrum Rider handheld spectrum analyzer, 5 kHz to 2 GHz	R&S FPH
Frequency upgrade	
Spectrum analyzer frequency upgrade, 2 GHz to 3 GHz	R&S FPH-B3
Spectrum analyzer frequency upgrade, 2 GHz to 4 GHz	R&S FPH-B4

Popular options/accessories

Description	Type
Preamplifier	R&S FPH-K22
AM/FM analysis	R&S FPH-K7
Power sensor support	R&S FPH-K9
Channel power meter	R&S FPH-K19
Pulse measurements with power sensor	R&S FPH-K29
Interference analysis	R&S FPH-K15
Signal strength mapping	R&S FPH-K16
Receiver mode	R&S FPH-K43
Yagi antenna, 824 MHz to 960 MHz	R&S HA-Z900
Yagi antenna, 1710 MHz to 1990 MHz	R&S HA-Z1900

Included: All models include lithium-ion battery pack, side strap for your hand, USB cable, power cord and 3-year warranty.

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

Rohde & Schwarz Representative