

R&S® Spectrum Rider FPH Spectrum Analyzer

Interference analysis (R&S®FPH-K15) and signal strength mapping (R&S®FPH-K16)



Key specifications	
Frequency range	5 kHz to 31 GHz
Resolution bandwidth	1 Hz to 3 MHz
DANL at 3 GHz (preamp on)	< -163 dBm
Battery operation	> 6 hours
Weight	2.5 kg

Your benefit	Features
Easily monitor intermittent transmission behavior	999-hour spectrogram recording function
Locate interferers anywhere	Free download of maps from OpenStreetMap for cross-border interference hunting at no extra cost
Postprocessing	With R&S®InstrumentView, signals can be further analyzed in the spectrum with markers and zoom functions
Simple documentation	Report generation in R&S®InstrumentView; information and format are customizable
Hunt interference without drawing attention	Connect to a third-party wireless router and download the R&S®MobileView app to remotely control the R&S®Spectrum Rider FPH from a backpack

The perfect choice for

Locating illegal transmissions of RF signals

Ensuring transmission coverage

Analyzing interference from an intended or unintended party/source

Swiftly accomplish tasks in any theater

The R&S®Spectrum Rider FPH has useful features that speed up interference hunting.



Always ready to locate interferers

- Nonreflective screen for working in bright sunlight
- Backlit keypad allows operation in dim conditions
- Antenna options available for both indoor and outdoor interference hunting
- Built-in preamplifier option to increase sensitivity to capture low-power interferers
- Built-in attenuator prevents overloading from strong signals

► For more information, see www.rohde-schwarz.com/product/fph

High-frequency interference hunting setup

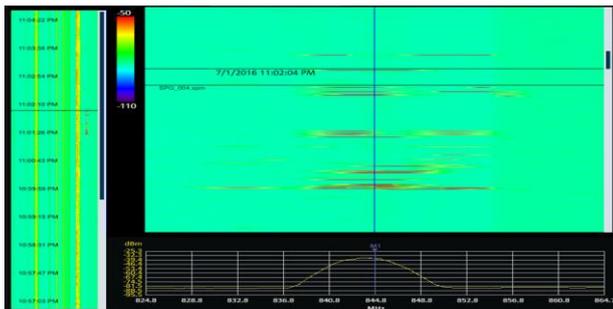


With high-frequency omnidirectional antenna (R&S®AC004)



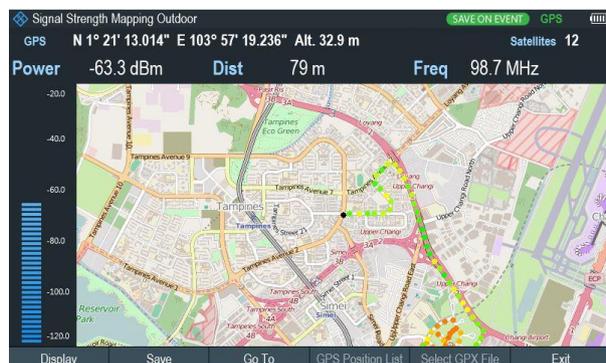
With high frequency horn antenna (R&S®FH-SG-40)

Long time recording



R&S®FPH-K15 includes a 999-hour spectrogram recording function

Signal Strength Mapping



Identifying the area of interest with the R&S®FPH-K16

Choose your model and frequency

Base model

R&S®Spectrum Rider handheld spectrum analyzer, 5 kHz to 2/6/13.6/26.5 GHz

R&S®FPH

Frequency and preamplifier upgrade for 2 GHz model

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

Preamplifier, 5 kHz to 4 GHz

R&S®FPH-B22

Frequency and preamplifier upgrade for 6 GHz model

Spectrum analyzer frequency upgrade, 6 GHz to 8 GHz

R&S®FPH-B8

Preamplifier, 5 kHz to 8 GHz

R&S®FPH-B23

Frequency and preamplifier upgrade for 13.6 GHz model

Spectrum analyzer frequency upgrade, 13.6 GHz to 20 GHz

R&S®FPH-B20

Preamplifier, 5 kHz to 20 GHz

R&S®FPH-B24

Frequency and preamplifier upgrade for 26.5 GHz model

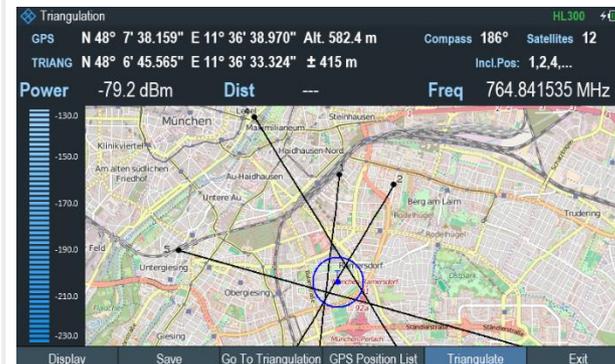
Spectrum analyzer frequency upgrade, 26.5 GHz to 31 GHz

R&S®FPH-B31

Preamplifier, 5 kHz to 31 GHz

R&S®FPH-B25

Triangulation



Triangulating the interferer location with the R&S®FPH-K15

Related options

Interference analysis	R&S®FPH-K15
Signal strength mapping	R&S®FPH-K16

Related accessories

Omnidirectional antenna, 18 GHz to 26.5 GHz	R&S®AC004R1/L1
Omnidirectional antenna, 26.5 GHz to 40 GHz	R&S®AC004R2/L2
Horn antenna, 26 GHz to 40 GHz	R&S®FH-SG-40
Horn antenna adapter	R&S®HA-Z370
Yagi antenna, 824 MHz to 960 MHz / 1710 MHz to 1990 MHz	R&S®HA-Z900/-Z1900
Handheld directional antenna handle	R&S®HE400/HE400BC
Cable set	R&S®HE400-K/-KB
USB adapter	R&S®HE300USB
HF ant. module, 8.3 kHz to 30 MHz	R&S®HE400HF
VHF ant. module, 20 MHz to 200 MHz	R&S®HE400VHF
UWB ant. module, 30 MHz to 6 GHz	R&S®HE400UWB
Log-periodic ant. module, 20 MHz to 2 GHz	R&S®HE400LP
Cellular ant. module, 700 MHz to 2.5 GHz	R&S®HE400CEL