ROHDE & SCHWARZ Make ideas real



R&S®Spectrum Rider FPH Spectrum Analyzer Small form factor to handle big tasks



The three key Ps for lab and field environments

Performance – excellent DANL and phase noise

- Weak signals can be easily captured
- Portability weighs as little as 2.5 kg
- ► Carrying holster (R&S[®]HA-Z322) to free up hands
- ► Side strap included for easy transportation
- ► Selection of carrying cases available

Price – low starting price and optional software keycode upgrades

- Competitive and attractive price
- ► No downtime, no recalibration needed



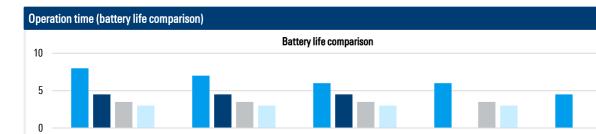
The perfect choice for

Spectrum clearance (5G ready)	Interference hunting
Pulse measurement	EMI debugging and RF design validation

Models	Supporting frequency		range
R&S [®] Spectrum Rider FPH	Default range		Upgrade to
Model .02	5 kHz to 2 GHz		3/4 GHz
Model .06	5 kHz to 6 GHz		8 GHz
Model .13/.23	5 kHz to 13.6 GHz		20 GHz
Model .26/.36	5 kHz to 26.5 GHz		31 GHz
Model .44/.54	5 kHz to 44 GHz		n.a.
Models	Tracking generator frequency range		
R&S®Spectrum Rider FPH	Min. frequency	Max.	frequency
Model .23	30 kHz		GHz/20 GHz ®FPH-B20)
Model .36	30 kHz	26.5 GHz/31 GHz (R&S®FPH-B31)	
Model .54	30 kHz	44 GH	łz

Key specifications	
Frequency	5 kHz to 44 GHz
Resolution bandwidths	1 Hz to 3 MHz
DANL at 3 GHz (preamp on)	< -163 dBm
Phase noise, 100 kHz offset	105 dBc/Hz at f = 500 MHz
Battery operation time	> 4.5 hours
Weight	<u>≥</u> 2.5 kg

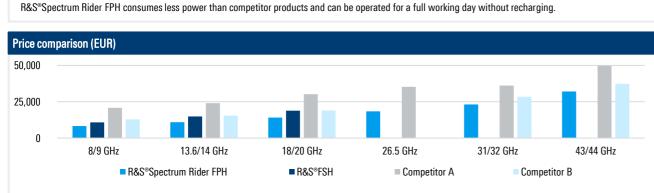
Your benefit	Features
Battery life twice that of current handheld spectrum analyzers	 > 6 hours battery life (models .02/.06/.13/.26) ↓ 4.5 hours battery life (models .23/.36/.44/.54)
Smartphone style capacitive touchscreen; also available with traditional interface	 7" antiglare capacitive color touchscreen On-screen keyboard Smartphone-like gestures Adjustable display brightness Large backlit button keypad Multifunction rotary knob
Buy only what you need; upgrade later without returning analyzer for servicing	 Selection of 2/6/13.6/26.5 GHz base models Frequency upgrade keycode options available for each base model Keycode options for function upgrades



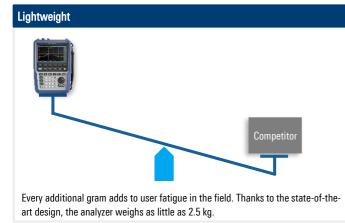
6/8/9 GHz

R&S*Spectrum Rider FPH R&S*FSH Competitor A Competitor B
The analyzer has an innovative fanless concept – part of a rugged design that protects it from dust and water. Designed with power optimization in mind, the

13.6/20 GHz



The R&S[®]Spectrum Rider FPH is a high-quality spectrum analyzer. Its favorable price tag lowers the barrier to entry for prospective premium analyzer owners. The unique frequency upgrade concept and software keycode options make it easy to upgrade the instrument.



Performance and features

26.5/31/32 GHz

43/44 GHz

The R&S[®]Spectrum Rider FPH has exceptional phase noise and DANL to capture known and unknown signals. R&S[®]Spectrum Rider FPH easily measures a wide range of parameters such as total harmonic distortion, occupied bandwidth, output power and channel power, making it the ideal tool for field work.

Other products to consider

- R&S®NRP power sensors all models up to 110 GHz supported
- ► R&S[®]FSH when you need digital modulation analysis

Ordering information

Choose your model and frequency				
Base model				
R&S®Spectrum Rider handheld spectrum analyzer, 5 kHz to 2/6/13.6/26.5/44 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			
Preamplifier upgrade for 44 GHz model				
Preamplifier, 5 kHz to 44 GHz	R&S [®] FPH-B26			
Popular options/accessories				
Description				
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			

Accessories: all models include a lithium-ion battery pack, side strap for hand, USB cable, power cord and three-year warranty.

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

Rohde & Schwarz GmbH & Co. KG (www.rohde-schwarz.com)

2/4 GHz

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