

RF Explorer 6G

MSRP: \$225

RF Explorer is a handheld digital spectrum analyzer, a very affordable tool for work in all popular frequency bands. It is based on a highly integrated frequency synthesizer and double balanced mixer which offers high performance, compact size, low consumption and low cost.

It has been designed to be used equally well outdoor and indoor, and can be connected to a PC for extra functionality using standard mini-USB 2.0 connector.

This model includes a 6G baseline standard unit. It comes with one SMA connectors and a rubber duck 5.8 GHz antenna, good for 5.2-6.0GHz scanning. Additional, specific band antennas may be needed to cover efficiently some of the frequencies supported.

Can be extended with internal Expansion Modules for additional band and functionality, and easily convert it to a 6G Combo or WiFi Combo more capable models.

The combination of these two models offer coverage for most used communication frequency range used in modern communication technologies including 5GHz WiFi, Wireless Video, 5.8GHz ISM, Satellite, etc.

Feature

- Pocket size and light weight
- Solid aluminum metal case
- Spectrum Analyzer mode with Peak Max and Hold, Normal, Overwrite and Averaging modes
- Lifetime free firmware upgrades available, open to community requested features
- High capacity Lipo for 16hs+ of continuous run, rechargeable by USB
- Windows PC client Open Source
- Wide band coverage to all popular RF frequencies in the 6GHz range, starting at 4850MHz and up to 6100MHz.
- Firmware: RF Explorer 6G is delivered with upgraded firmware v1.12. Note some of the features and operation accuracy will be improved in upcoming lifetime free firmware revisions.

Important

Note this unit does not include RF Generator functionality, only Spectrum Analyzer functionality is available. For signal generator and tracking please consider RF Explorer Signal Generator model RFE6GEN.

Specification

- Frequency band: 4850-6100MHz

- Frequency span: 112KHz - 300MHz (can extend to 600MHz with any expansion module connected)
- Graphics LCD 128x64 pixels, great visibility outdoors
- PC Windows client supports Windows XP/Vista/Win7 both 32 and 64bits
- Backlight for great indoor visibility
- One standard SMA 50 ohms Spectrum Analyzer connector : 4850-6100MHz
- Amplitude resolution: 0.5dBm
- Dynamic range -105dBm to -15dBm
- Absolute Max input power +25dBm
- Average noise level (typical): -105dBm
- Frequency stability and accuracy (typical) +-0.5ppm
- Amplitude stability and accuracy (typical): +-3dBm
- Frequency resolution: 1Khz
- Resolution bandwidth (RBW): automatic 58Khz to 812Khz
- Weight: 185g
- Size: 113x70x25 mm