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# RF Explorer Pocket Analyser

## Features

- Scans from 240MHz to 960MHz.
- Pocket size and light weight
- Solid aluminium metal case
- Spectrum Analyser 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
- Can be extended with internal Expansion Modules for additional band and functionality
- Wide band coverage to all popular sub-1Ghz ISM bands, including 315MHz, 433MHz, 868MHz and 915MHz, also including UHF TV, 70cm and 33cm HAM radio, GSM, etc.



## Description

RF Explorer is a handheld digital spectrum analyser, available in several model options covering all ISM bands, 3G and WiFi. It is based on a highly integrated frequency synthesizer which offers high performance, compact size, low consumption and low cost.

It is simple to use with the menu buttons and has integral battery for many hours use. In addition to being a stand alone analyser it can be connected to a PC for extra functionality using standard mini-USB

EXPLORER-WSUB1G	Spectrum Analyser 240-960MHz
EXPLORER-ISM	Spectrum Analyser 240-960MHz 2.35-2.55GHz
EXPLORER-3G	Spectrum Analyser ISM/GSM 15-2700MHz

# RF Explorer



## Technical Specifications

Parameter	WSUB1G Version	ISM Version	3G Version
Frequency Bands	240 - 960 MHz	240 - 960 MHz 2.35 – 2.55 GHz	15 - 2700MHz
Frequency Span	112KHz - 100MHz	112KHz - 100MHz	112KHz - 600MHz
Graphics LCD	128x64 pixels		
PC Windows Support	Windows XP/Vista/Win7 both 32 and 64bits		
RF Input	SMA 50ohms+	2 x SMA 50ohm	2 x SMA 50ohm
Amplitude resolution	0.5dBm	0.5dBm	0.5dBm
Dynamic range	-115dBm to 0dBm	-115dBm to 0dBm	Left SMA (WSUB1G): -115 to 0dBm Right SMA (WSUB3G): -110 to -10dBm
Absolute Max input power	+5dBm	+5dBm	Left SMA (WSUB1G): +5dBm Right SMA (WSUB3G): +30dBm
Average noise level	(typical): -110dBm	(typical): -110dBm	(typical): -110dBm
Frequency stability and accuracy	(typical): +-10ppm	(typical): +-10ppm	(typical): +-10ppm
Amplitude stability and accuracy	(typical): +-3dBm	(typical): +-3dBm	(typical): +-6dBm
Frequency resolution	1KHz	1KHz	1KHz
Resolution bandwidth (RBW)	automatic 2.6KHz to 600KHz	automatic 2.6KHz to 600KHz	automatic 3KHz to 600KHz
Battery Life between charges	Typ 16 hours	Typ 16 hours	Typ 16 hours
Weight	185g		
Dimensions	113x70x25 mm		

### RF Solutions Ltd. Recycling Notice

Meets the following EC Directives:

**DO NOT** Discard with normal waste, please recycle.

#### WEEE Directive 2002/96/EC

Waste electrical & electronic equipment. This product must be disposed of through a licensed WEEE collection point. RF Solutions Ltd., fulfils its WEEE obligations by membership of an approved compliance scheme.

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### ROHS Directive 2002/95/EC

Specifies certain limits for hazardous substances.



### Waste Batteries and Accumulators

#### Directive 2006/66/EC

**Where batteries are fitted, before recycling the product, the batteries must be removed and disposed of at a licensed collection point.**

**Environment Agency producer registration number: WEE/JB0104WV.**

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