RF-EXPLORER/3

Order no.: 0254670

PRODUCT INFORMATION

RF spectrum analyser, 15-2,700 MHz,
in a compact aluminium housing with two antennas (SMA connection) for the different frequency ranges. Also to be used for preventing frequency collisions when setting up radio links in the specified frequency range.

- Real-time monitoring of the frequency range used with indication of frequency and level (dBm and dBµV)
- Backlit high-contrast graphic display (128 x 64 pixels)
- Automarker function and manual marker positioning for setting an individual carrier frequency
- Special Wi-Fi analyser with display of 13 WLAN channels
- Max hold function for a reliable detection of ultra-short RF carrier frequencies (additional modes: normal, max., average, overwrite)
- Mini USB 2.0 interface for connection to a PC or laptop as well as for charging the built-in rechargeable lithium polymer battery (1,000 mAh)
- Supplied with transport bag and USB cable
- Client software with real-time analysis for Windows XP/Vista/Win7/Win8.x/Win10/Windows Server (32-bit or 64-bit version) can be downloaded at www.monacor.com
- Dimensions: 71 x 122 x 25 mm
- Weight: 210 g

EVENT Rookie 08/2016
“A real dynamic duo. The RF-EXPLORER should definitely be part of your tool case as soon as transmission technology is applied. Due to its minimum weight and compact size, it can always be close at hand ... The device provides a sufficiently accurate display. However, in combination with the software, RF-EXPLORER offers real luxury when it comes to reading accuracy, display and archiving. Anyone who wants to delve deeper into the world of transmission technology, should also purchase the RF-GENERATOR. When combined with the software and RF-EXPLORER, you are able to quickly and easily set up a very efficient tracking system.”

proaudio.de 02/2013

“All in all, the RF-EXPLORER/3 can be highly recommended to anyone using wireless products. Of

course, there are also other units in the range of scanners, but no other device is as mobile, functional and flexible, yet still available at such an attractive price. Thus, it can be absolutely recommended to anyone using wireless products.”

pma 04/2017
“The detailed analysis of the RF-EXPLORER is a major advantage ... It is possible to scale the ranges within a spectrum as required which is clearly an advantage when using the hand-held analyser for mobile applications within a venue. However, the RF-EXPLORER reaches its full potential when used together with the software extension and a laptop.”

Wireless 2018, the RF-EXPLORER in action
I first applied the RF-EXPLORER from MONACOR to analyse and monitor the UHF frequency range at an event of the “Deutsche Sporthilfe” (German sports foundation) called “Ball des Sports” in Wiesbaden, Germany. More than 30 channels for wireless devices, both microphone links and in-ear monitoring, had to be taken care of at the production as well as additional frequencies calculated which have been used by TV and intercom. The RF-EXPLORER was used on a MacBook Pro with the software “Vantage” by RF Venue for Mac OS X. The corporate software from MONACOR is exclusively available for Windows computers.
With the applied software, it is possible to scan the required frequency ranges on a laptop which features a large and easy-to read display. The connection with the software is established via USB and the Explorer is recognised without any problems or further installations. The collected data can be exported in .cvs format which is another advantage of the RF-EXPLORER and the Vantage software. The data can directly be imported into WirelessWorkbench 6 by Shure, which is used to calculate frequencies. Therefore, the workflow is quick and straightforward.
The RF-EXPLORER can analyse the frequency range from 15 to 2,700 MHz and the 2.4 GHz band. This range is absolutely sufficient for the intended application and helps to solve existing issues with frequency calculation. Due to decreasing frequency ranges which can be used for professional wireless applications, regionally varying digital TV stations and LED panels which may be installed at events and interfere with the frequency range to be used, UHF applications become mora and more complex. The increasing number of wireless microphones, in-ear lines and other wireless devices like Telex intercom systems, still add to the situation. Therefore, new software and hardware tools like the RF-EXPLORER are required for a smooth and interference-free operation.
The comprehensive functions of the RF-EXPLORER which can be operated with different modes (normal, max, average and overwrite), the automatic marker function and the manual positioning of the marker for setting individual carrier frequencies are useful and impressive features to ensure a problem-free operation. Focussing on frequency ranges and level ranges or displaying the maximum frequency range to be used respectively by the existing devices greatly facilitate locating and monitoring other operational transmitters in the respective work environment. Thanks to the high-performance batteries, it is possible to simply walk around in search of troublemakers.
As with other data-collecting applications (e.g. levelling of PA systems), experience in interpreting the diagrams is essential because the RF-EXPLORER shows different results to frequency scans of different devices like microphone receivers or in-ear receivers at the same location.
In my opinion, a continuous use of the RF-EXPLORER will benefit your routine and enhance

workflow efficiency when handling UHF devices. Thus, complex situations can be solved and managed. As far as I am concerned, I will continue to use the RF-EXPLORER by MONACOR. I look forward to using the RF-EXPLORER in the future and I am reassured to have it in my tool case.

Manufacturer information:
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Safety Notes and Warning Messages
The unit is suitable for indoor use only. Protect it against dripping water and splash water, high air humidity and heat (admissible ambient temperature range: 0 - 40 °C).
If the unit is to be put out of operation permanently, take it to a local recycling plant for a disposal which is not harmful to the environment.

Safety and warning notices
Take care with high EM radiation.
The RF-EXPLORER can be used to measure very small signals down to -120 dBm. The antenna inputs are therefore very sensitive and can be damaged by excessive irradiation even when the device is switched off. The maximum input level of +5 dBm must not be exceeded. This results, for example, at a distance of approx. 1 m from a microwave oven or approx. 10 cm from a mobile phone. Static discharges via the antennas must also be avoided at all costs. For example, hold the metal housing firmly with one hand before attaching or touching an antenna with the other hand.
For storage or transport, store the device in a metal box and/or remove the antennas.
In areas with very high RF radiation, plug an SMA connector with a 50 Ω terminating resistor into each of the antenna sockets.
Only use the device indoors and protect it from dripping and splashing water, high humidity and heat (permissible operating temperature range 0 - 40 °C).
If the device is to be taken out of operation permanently, hand it over to a local recycling company for environmentally friendly disposal.
Batteries and rechargeable batteries must not be disposed of with household waste. Dispose of them as hazardous waste in accordance with local regulations.

SPECIFICATIONS

RF-EXPLORER/3	
Display	graphic display (128 x 64 pixels)
Frequency	15-2,700 MHz
Admiss. ambient temp.	0-40 °C
Dimensions	71 x 122 x 25 mm
Weight	210 g

RF-EXPLORER/3

Power supply	rech. lithium polymer battery, 1000 mAh
Special features	mini USB port

RF-EXPLORER/3

EAN code	4007754232738
Net weight	0.348 kg