



## AirMedic™ USB



AirMedic™ USB is a powerful, easy-to-use and affordable spectrum analysis tool that brings Wi-Fi troubleshooting to entry-level users. Built upon AirMagnet's unmatched experience in Wi-Fi troubleshooting, AirMedic USB is a fast and simple, "just the facts" approach to dealing with the periodic performance and reliability problems that all wireless LANs experience. With AirMedic USB you can detect any RF activity in your environment; detect parts of your WLAN that are experiencing RF interference issues that lead to performance problems and ultimately to user dissatisfaction due to slow connections or frequent disconnections and select the best channels for deploying Wi-Fi APs in your environment.

### RF SPECTRUM ANALYSIS AND TROUBLESHOOTING

Universal USB form factor

Scan all Wi-Fi bands

Professional grade RF Spectrum graphs

Multiple Wi-Fi charts

Spectrum session recording, playback and instant playback

Built-in customizable views



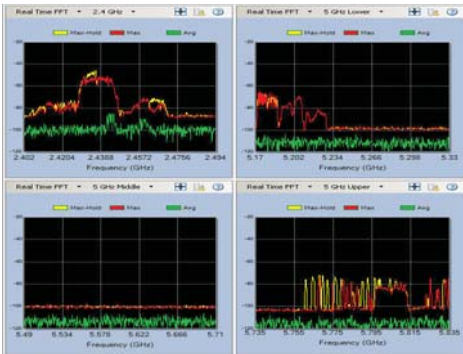
## Universal form-factor



USB-based RF spectrum adapter

AirMedic USB's universal USB form-factor, gives users the flexibility of installing and using the product on Microsoft Corp. Windows PCs or Apple Inc. MacBook Pro. The Spectrum USB adapter has an internal antenna as well as a MMCX connector to connect the external omni-directional antenna included in the AirMedic USB package or the optionally purchased external directional antenna.

## Wi-Fi troubleshooting made easy

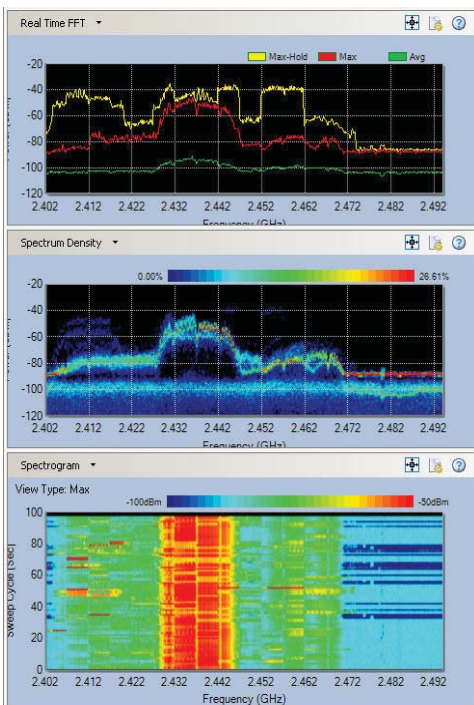


Mixed-mode view

AirMedic USB provides clear visibility into the 2.4 GHz, 4.9 GHz and 5 GHz Wi-Fi bands and delivers the pinpoint resolution necessary to find and resolve interference and RF problems. Users can choose to view bands individually or leverage the “mixed mode” feature for complete coverage of all Wi-Fi bands. AirMedic USB is designed around a simple interface with one goal in mind – get problems fixed fast. Instead of navigating through multiple pages or pouring over endless decodes, AirMedic USB boils the network down to its most core components and delivers them in a single integrated view. Built-in “Easy Views” provide chart sets for troubleshooting the most common problems, or users can save their own customized views that are tailored to their troubleshooting methods.

## Unmatched RF Spectrum Analysis

AirMedic USB provides visibility into the physical layer of the WLAN, to identify RF interference and problems in the environment that directly impact the performance of the network . Key RF spectrum graphs include:



RF Spectrum Graphs

### Real-Time FFT

The bedrock of any spectrum analyzer, AirMedic's FFT graph provides a real-time view into the RF energy in the environment with current, max, max hold and average RF signal levels.

### Spectrum Density

This graph provides a longer-term view into the network by displaying live information on the signals that have been common during the current capture session. This can be very helpful to identify infrequent transmitters.

### Spectrogram

This graph provides a scrolling history of the RF environment and allows a visual understanding of the spectrum over time to see intermittent spikes or bursts of RF energy that may be causing WLAN network problems.

### Duty Cycle

Duty cycle tells you just how often an interfering signal is present. A high duty cycle means an interferer is constantly transmitting and will most certainly cause problems on the affected channel.

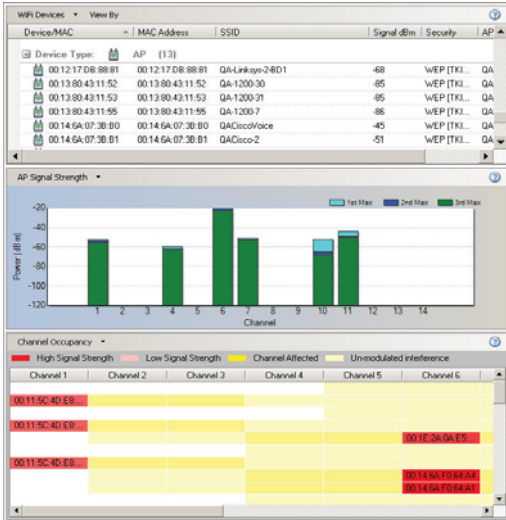
### Channel Power

This graph shows the maximum and average power levels across all the channels in the selected radio band.

### Channel Duty Cycle Vs Time Trending

This trending graph show the average power in the channels that is above the noise floor over a specific period of time.

# Wi-Fi Analysis



Just plug in any Wi-Fi adapter in the same PC as the AirMagnet spectrum adapter or use any adapter built inside your machine, and AirMedic USB will instantly provide you with a variety of Wi-Fi charts to give you the Wi-Fi perspective at the same time.

## AP Signal Strength

The AP Signal Strength chart displays up to three APs with the strongest signal strength readings on each channel in the selected radio band.

## AP List

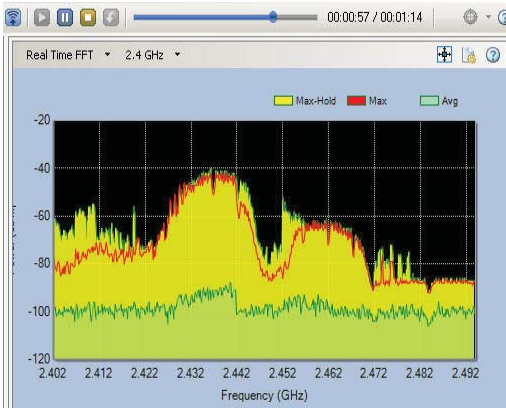
This chart shows all Wi-Fi devices along with their properties that have been detected on all available channels in the selected radio band.

## Channel Occupancy

This chart shows all the available channels for the selected radio band and which APs are occupying those channels

Built-in Wi-Fi charts

# Record and Playback

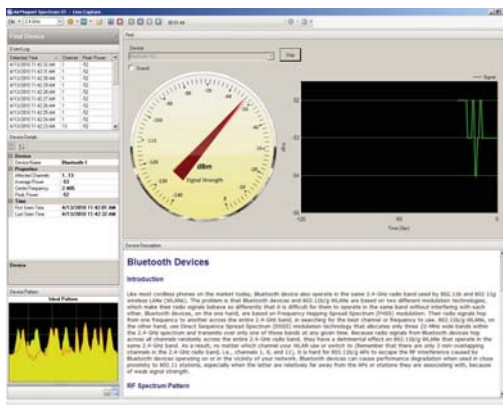


AirMagnet AirMedic USB users can save their RF spectrum scans, retain it as hard evidence and play it back at a later time for post-capture investigation and analysis. This is very helpful as critical forensic information while investigating any Layer 1 Denial of Service attacks against the WLAN network. The saved trace files can also be shared between users for collaborative analysis and troubleshooting.

AirMedic USB's Instant Replay feature allows users to review the most recent spectrum information and play it back, as if it were being viewed live for the first time.

Record and playback feature

# Upgrade to Advanced Spectrum Analysis Solution



AirMedic USB users can upgrade to the industry's only USB-based professional spectrum analysis solution, AirMagnet Spectrum XT, that combines in-depth RF analysis with real-time WLAN information for quicker and more accurate troubleshooting of any performance problem. With Spectrum XT, users can detect, identify and locate individual sources of RF interference, including Bluetooth, cordless phones, microwave ovens, wireless game controllers, wireless cameras, RF jammers and many more, that significantly impact the performance of the WLAN. With the unique Wi-Fi impact analysis capability, in a single and co-related view users can visualize the direct impact of RF interference on the true performance of the WLAN.

This transition to Spectrum XT is very smooth for users as both products use the same USB spectrum adapter and include a similar user interface.

Spectrum XT's RF interferer locator tool

# Product Facts

Product	Part Number
AirMagnet AirMedic USB	AM/B4720
AirMagnet AirMedic USB to AirMagnet Spectrum XT upgrade	AM/B4074-UGD

## Technical Specifications

**Frequency range:** 2402 to 2494 MHz; 5160 to 5330 MHz; 5490 to 5710 MHz; 5735 to 5835 MHz; 4910 to 4990 MHz

**USB Specs:** Unit width 38.1mm; length 108.2mm; height 8 mm; weight 31.2 grams; operating temp: 0 to 70 C (32F to 158F)

**DC power:** Voltage supply 5 volts; Active Power: 2 W

**Capture Limit:** Dependent on Hard disk space

**Amplitude accuracy:** +/- 2 dB

**Resolution Bandwidth:** 156.3 KHz

**Max Input:** 0 dbm

**Sweep time:** 64msec per 20 MHz or 64msec per channel

## Minimum System Requirements (Laptop/Notebook)

Intel® Core™ 2 Duo 2.00 GHz or higher

XP™ Professional (SP3) operating systems; Windows 7 Professional, Ultimate or Enterprise; Microsoft® Windows Vista™ Business or Ultimate Note: 32-bit editions only

1 GB RAM required (2 GB recommended)

150 MB free disk space

Microsoft .NET Framework 2.0

AirMagnet Spectrum USB adapter (for viewing RF spectrum data) ; Optional Wi-Fi adapter for Wi-Fi charts

## Netbook

Intel® Atom N270/1.6 GHz CPU/1 GB(2 GB rec.) RAM

XP™ Home & Windows 7 Starter OS (32-bit only)

All other specifications are the same as mentioned above

## MacBook Pro

MAC OS X Leopard™, MAC OS X Snow Leopard™ [running Windows XP™ PRO (SP3) or Microsoft® Windows 7 Professional/Enterprise/Ultimate using Boot Camp®; Parallels Desktop® or VMware Fusion® running Windows XP PRO (SP3) or Microsoft® Windows 7 Professional/Enterprise/Ultimate] Note: 64-bit operating systems are not supported.

All other specifications are the same as mentioned for the Laptop/Notebook

**Patents:** U.S. Patent No. 7009957, 7236460, 7292562, 7289465, ZL030807586, 7385948, 7613139B1 and 7130289. Additional patents pending.

## For More Information

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