

THE FASTEST WAY  
TO WIRELESS.

# ConnexRF™ SA3000 Spectrum Analyzer

## PRODUCT OVERVIEW

Compact and cost-effective, AeroComm's Spectrum Analyzer (SA3000) enables monitoring and analysis of local RF signals in and around the license-free 2.4 GHz ISM band. The SA3000 captures and displays potential in-band interference and helps OEMs identify optimal locations for 2.4 GHz wireless equipment.

Before placing ConnexRF 2.4 GHz transceivers on site, use the SA3000 to observe existing RF signals from devices like microwaves and cordless phones. If competing signals are found, you can use the SA3000 to track them to the source and evaluate their interference strength.

SA3000 is comprised of a sensitive RF detector – which connects to a desktop or laptop computer – and proprietary application software. On-screen displays are user-friendly (see below), so OEMs of all RF experience levels can evaluate installation sites with confidence.

## SOFTWARE FEATURES

SA3000 provides intuitive controls to help you view and analyze data quickly. Operation is menu-driven, with on-screen displays comparable to costly handheld analyzers with LCDs. Displays can be configured using three user-selectable settings: frequency, span, amplitude.

### Frequency

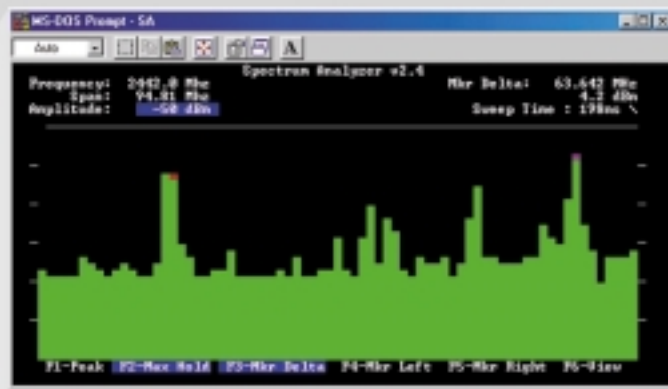
Sets center frequency of the display.

### Span

Sets the width of the display in MHz.

### Amplitude

Sets -20/-50 dBm amplitude range.



### Key Features

Several F-key software functions provide one-touch access to spectrum analysis data. **Max Hold** captures and freezes random occurrences of signals in the ISM band. **Peak Search** and **Marker Delta** can then be used for absolute and relative measurements of the captured signals. See SA3000's User Manual for details.

## SPECIFICATIONS

Dimensions: 4.4 x 2.7 x 1.4 inches  
(111 x 69 x 36 mm)

Unit Weight: 6 ounces (170 g)

Cord length: 6 feet (183 cm)

Tech Specs: See back of page



## SYSTEM OPERATION

- SA3000 unit with RS232 cable
- 120V AC power supply
- PS/2 port power supply cable
- USB port power supply cable
- Application software on CD ROM

SA3000 interfaces to your PC via 9-pin serial port connection. The device draws DC power from either a 120V wall adapter (for fixed site use) or from a laptop's USB or PS/2 port (for mobile use). LED lights indicate successful connections.

The hardware is controlled by its MS DOS application software to detect the range of frequencies you select in the ISM band (2400–2483 MHz).



[www.wirelessworldag.com](http://www.wirelessworldag.com)

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# **ConnexRF™ SA3000 Spectrum Analyzer**

## **FREQUENCY SPECIFICATIONS**

Center frequency range: 2380 MHz to 2510 MHz  
Frequency accuracy: +/- 100 kHz  
Span: 7.29 MHz to 175.04 MHz  
Resolution bandwidth: 1.5 MHz  
Sweep time: 100 mS to 300 mS (dynamically configured to match span)  
Tuning increments: 50 kHz step (minimum)

## **AMPLITUDE SPECIFICATIONS**

Measurement range: -20 dBm to -90 dBm  
Max safe input level: +23 dBm  
Amplitude accuracy: +/- 2 dBm  
Scale units: dBm

## **GENERAL SPECIFICATIONS**

Operating temperature range: 0° to 70°C  
Operating voltage range: 5V to 7V DC  
Current consumption: 155 mA typical  
RS232 interface rate: 115,200 baud

