

# chanalyzer lab

## Portable Spectrum Analysis

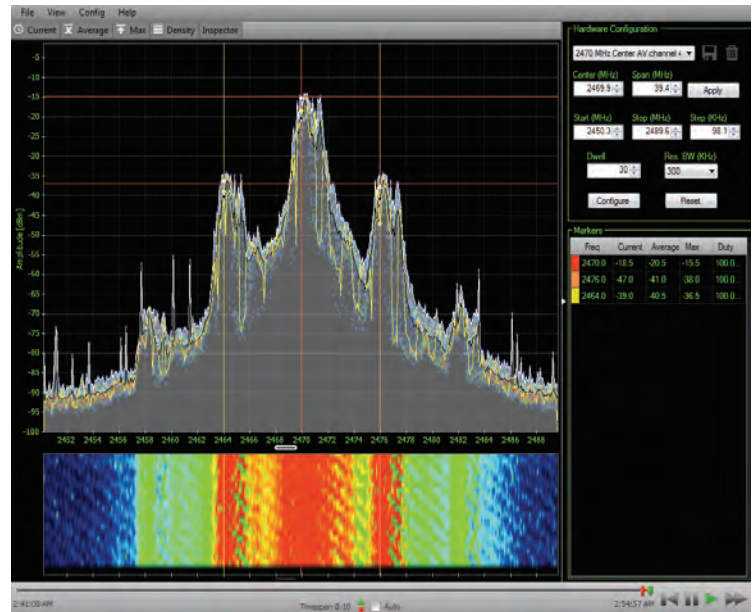
One of the primary advantages of Wi-Spy tools is that they are small and highly portable, which means they are a heck-of-a-lot more enjoyable to pack around than traditional bench-top spectrum analyzers. And since Wi-Spy tools are quick and easy to set up, working from home, the field, and just about anywhere else is not a problem. Just remember to grab your Wi-Spy before heading out the door.

Compatible with Wi-Spy 900x and 950x, as well as Wi-Spy DBx and 2.4x, Chanalyzer Lab lets you analyze the most popular unlicensed RF bands. This is ideal for developing wireless devices, testing equipment, or working with other wireless applications.

Together Chanalyzer Lab and Wi-Spy will help you set up quickly and get to the task at hand, with total control of step size, resolution bandwidth and dwell time.

### Key Features

- **Adjustable Hardware Configuration**
- **Custom, Savable Configurations**
- **Duty Cycle by Frequency**
- **Frequency and Amplitude Markers**
- **Simultaneous Multi-Device Support**
- **DVR-Like Timeframe Navigation**
- **Adjustable, Unified Time Segment**
- **Recordings and Playback**
- **Full 64-bit Support**



## Technical Specifications

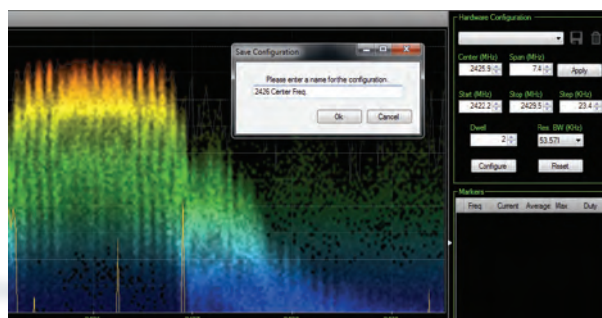
<b>Maximum Zoom:</b>	<b>1.0 MHz</b>
<b>Capture Limit:</b>	<b>Dependent on hard disk space</b>
<b>Frequency Range:</b>	
Wi-Spy 900x	<b>862 to 928 MHz</b>
Wi-Spy 950x	<b>940 to 970 MHz</b>
Wi-Spy DBx	<b>2.400 to 2.495 GHz, 5.150 to 5.850 GHz</b>
Wi-Spy 2.4x	<b>2.400 to 2.495 GHz</b>
<b>Amplitude Range:</b>	
Wi-Spy 900x	<b>-105 dBm to -6.5 dBm</b>
Wi-Spy 950x	<b>-100 dBm to -6.5 dBm</b>
Wi-Spy DBx	<b>-100 dBm to -6.5 dBm</b>
Wi-Spy 2.4x	<b>-110 dBm to -6.5 dBm</b>
<b>Amplitude Resolution:</b>	<b>0.5 dBm</b>
<b>Resolution Bandwidth:</b>	
Wi-Spy 900x	<b>53.571 to 750.000 KHz</b>
Wi-Spy 950x	<b>60.268 to 843.750 KHz</b>
Wi-Spy DBx (2.4 GHz)	<b>58.036 to 812.500 KHz</b>
Wi-Spy DBx (5 GHz)	<b>53.571 to 750.000 KHz</b>
Wi-Spy 2.4x	<b>53.571 to 750.000 KHz</b>
<b>Sweep Time*:</b>	<b>* Shortened or lengthened by Zoom and Resolution</b>
Wi-Spy 900x	<b>370msec</b>
Wi-Spy 950x	<b>450 msec</b>
Wi-Spy DBx (2.4 GHz)	<b>507 msec</b>
Wi-Spy DBx (low 5 GHz)	<b>1242 msec</b>
Wi-Spy DBx (mid 5 GHz)	<b>1587 msec</b>
Wi-Spy DBx (high 5 GHz)	<b>641 msec</b>
Wi-Spy 2.4x	<b>531 msec</b>

## Requirements

<b>OS</b>	Windows 7, Vista or XP (SP3)
<b>Mac OSX Virtualization Framework</b>	VMware Fusion, Parallels
<b>Resolution</b>	Microsoft .Net 3.5
<b>RAM</b>	1024 x 768 (or greater)
<b>Processor</b>	1 GB (Rec. minimum)
<b>Wi-Spy Hardware</b>	1 GHz (Rec. minimum)
	Wi-Spy 900x, 950x, DBx or 2.4x

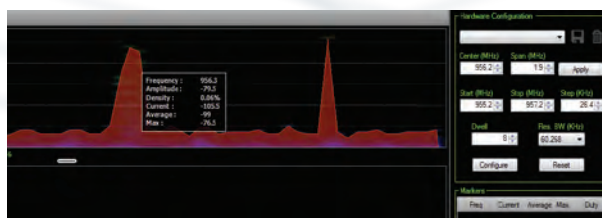
## Hardware Configuration Panel

The Hardware Configuration Panel lets users zoom-in to specific frequency ranges, specify step size, control dwell time and adjust resolution bandwidth for optimal visualization. Configurations can be saved and implemented in future sessions for quick and easy setup.



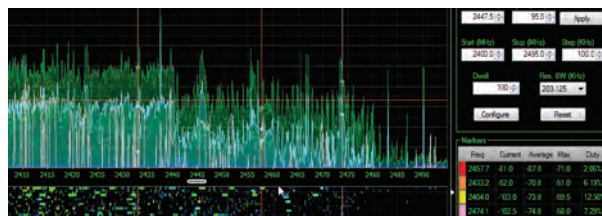
## Inspector

The Inspector tool provides an instant frequency, amplitude, density, current average, and maximum reading, as well as time, while hovering over the spectrum graph. This functionality provides a quick snapshot of individual frequency-amplitude points.



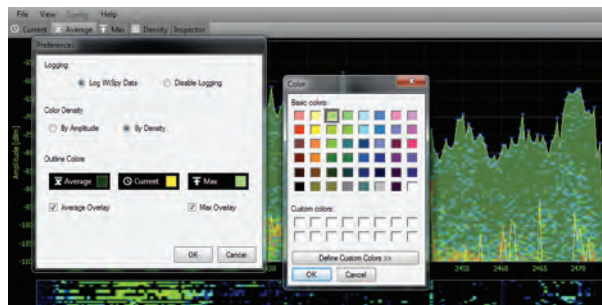
## Markers

Frequency markers and amplitude markers let users designate specific frequencies and amplitudes for simplified viewing on the graph. Frequency, current, average, maximum and duty cycle are measured for each set frequency marker and displayed in the Markers Table.



## Customizable Colors

Users can choose custom colors to represent current, average and maximum, as well as overlays. This feature provides easy customization of graphs so MetaGeek users can visualize spectrum data in a format that works for them.



## Simultaneous Multi-Device Support

Chanalyzer Lab supports multiple Wi-Spy devices running at the same time, allowing users to scan multiple bands or multiple sections of bands in the same session.

