



Chanalyzer Lab Accessory for Chanalyzer

metageek

System Requirements

SOFTWARE: **Chanalyzer 5**

OPERATING SYSTEM: **Microsoft® Windows 8, 7, Vista, XP**

Mac OS X VIRTUALIZATION: **VMware Fusion, Parallels**

NOTE: Virtual machines require an external USB Wi-Fi adapter to view Wi-Fi information

DISPLAY RESOLUTION: **1024 x 600** (or better)

FRAMEWORK: **.NET Framework 4**

USB PORT: **1.1** (or better)

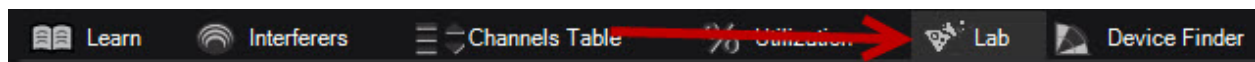
RAM: **4 GB** (recommended)

HARDWARE: **Wi-Spy 900x, Wi-Spy 2.4x, or Wi-Spy DBx**

About this Guide

This guide is specific to the Lab Accessory for Chanalyzer, and should be viewed as a supplement to the main Chanalyzer user guide. For more information, please visit our knowledgebase at <http://support.metageek.net>.

After unlocking the Lab accessory in Chanalyzer, the “Lab” tab will be added to the Details Pane.

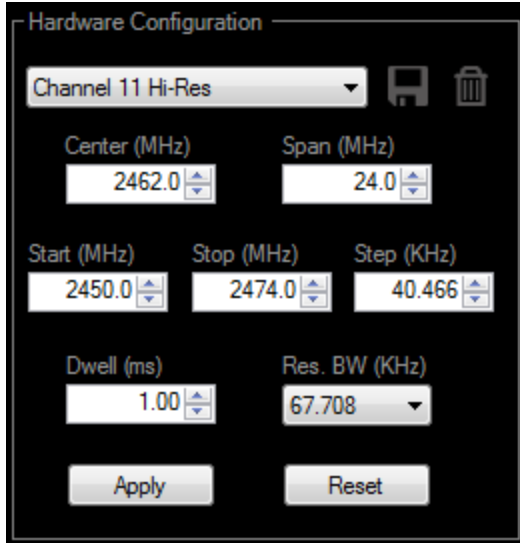


Wi-Spy Configuration Presets

There are two locations to choose frequency presets. In the Hardware Configuration Panel, you can select from the default presets as well as their own custom configurations

Custom Configurations

Users can save configuration presets that are quickly accessible from the drop down menu. Once the configuration has been applied, the drop down will appear empty. To save the configuration click the **SAVE** disk icon. Give the preset a name, and it will appear in the drop down.



To remove a preset, select it from the drop down menu and click the trash can icon.

Manual Hardware Configuration

There are two methods in manually selecting the frequency range for the Wi-Spy configuration. You can enter a center frequency and select the frequency span or step width. For example, if you entered "5775" into the Center Field and "20" for the span, it would leave 10 MHz on both sides of the center frequency. Alternatively, you can enter the start and stop frequencies. The Step Size and the Span are configured to automatically display at least 10 data points.

Step Size

The step size defines the resolution displayed in the overview pane. To adjust the resolution, increase or decrease the step size. A smaller step size will create a higher resolution capture, but it will increase the length of time it takes to finish a sweep. A large step size will lower the resolution, but will decrease the sweep time as well.

The default settings are optimized for both speed and resolution.

Small Step Size = High Resolution, Slow Scan

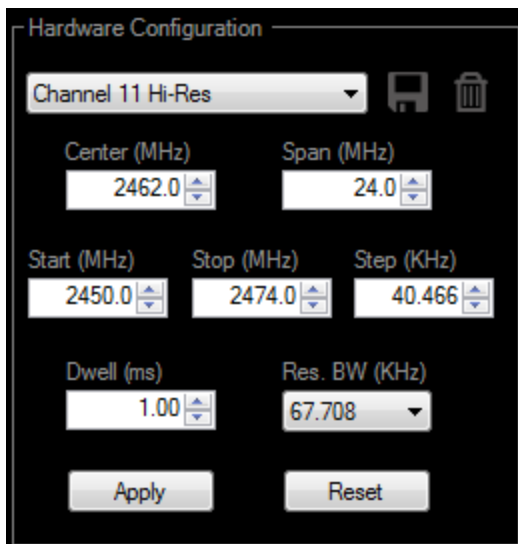


Big Step Size = Lower Resolution, Quick Scan



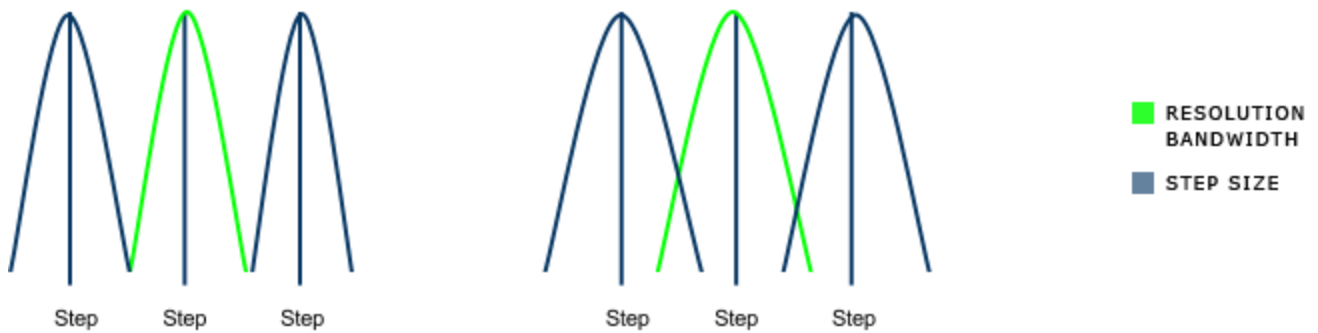
Dwell Time

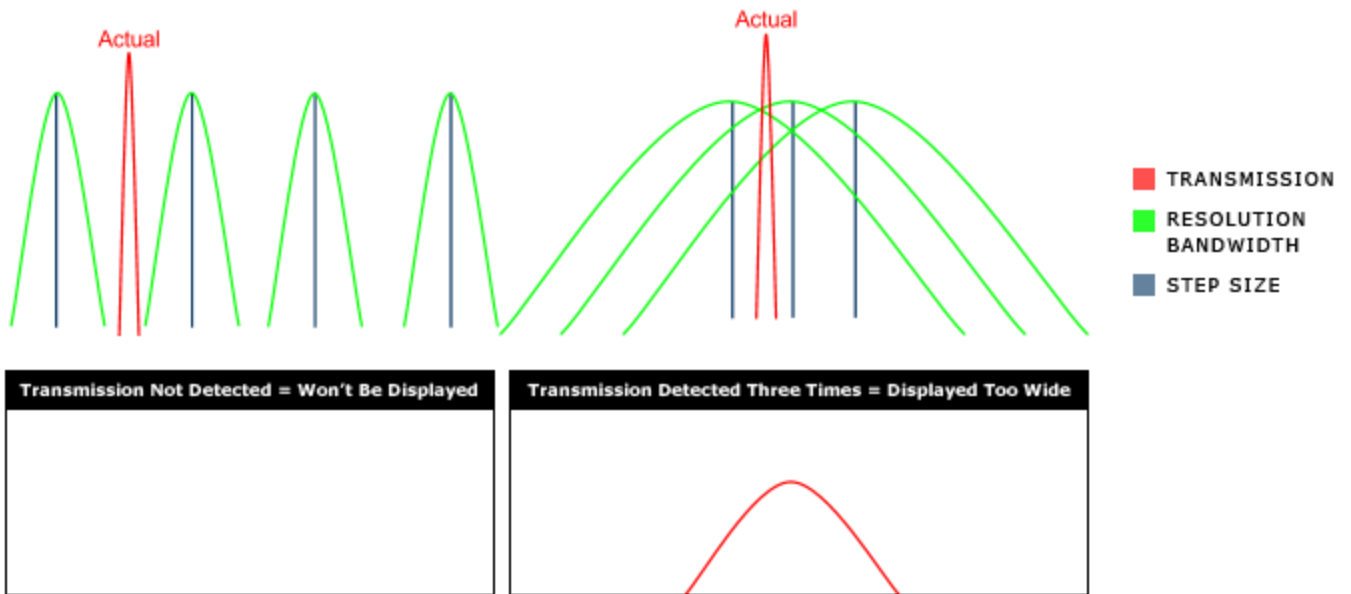
To control the amount of time the Wi-Spy spends at each step, increase or decrease the value in the Dwell field.



Resolution Bandwidth

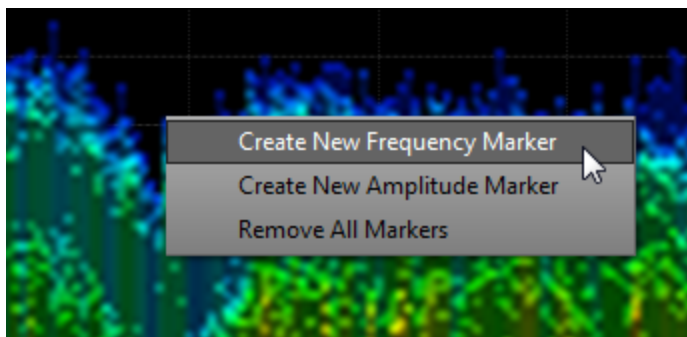
Resolution Bandwidth is closely tied to the step size of the spectrum analyzer. The filter bandwidth resolution determines how wide the spectrum analyzer will listen at each step. If the resolution bandwidth is the same width as the step size, some transmissions will be omitted from the capture. By default, Chanalyzer Lab will keep the resolution bandwidth to 125% of the step size.





Markers

Chanalyzer Lab can measure current, average and maximum values for specific frequencies selected by the user. To create a marker right click in the overview pane and select "Create New Frequency Marker."



Chanalyzer will build a table to the right of the Hardware Configuration options. Each entry will display measurements for the current, average, and max for each frequency marker. These values are dependent on the time span selected.

Markers

	Freq	Current	Average	Max	Utilization
	2461.8	-62.0	-67.5	-60.0	38.30%
	2456.5	-81.0	-78.5	-71.0	36.17%
	2467.3	-101.5	-85.5	-79.5	2.13%

LEARN MORE

You can learn more about the Lab Accessory for Chanalyzer at <http://www.metageek.net/products/chanalyzer-lab/>