# wi•spy 2.4i

## Spartan Spectrum Analysis

Wi-Spy 2.4i is a straightforward, powerful spectrum analyzer for real-time troubleshooting of 2.4 GHz band interference. Like all Wi-Spy models, the 2.4i is easy to use, quick to set up, and small enough to fit in your pocket. Wi-Spy 2.4i sees all RF activity in the band, including Wi-Fi and non-Wi-Fi sources.

Bundled with MetaGeek's Chanalyzer Lite software, Wi-Spy 2.4i is loaded with fundamental spectrum analysis features needed for troubleshooting wireless interference. Optional Wi-Fi features included with the software provide an extra layer of information, if used with a supported wireless NIC, to guide in troubleshooting network dropouts, slowness, etc.

Wi-Spy 2.4i allows up to 60 minutes of spectrum and Wi-Fi data to be captured during each session. Collected data can be paused, played back and viewed in much the same way as a DVR machine. This functionality offers excellent control of session timeframes, so users can easily view and quickly identify and troubleshoot interference events.

## Technical Specifications

| | |
|---:|:---|
| Frequency Range: | **2.400 to 2.492 GHz** |
| Rolling Data in Session: | **Past 60 Minutes** |
| Antenna: | **Internal Trace** |
| Amplitude Range: | **-102 to -6.5 dBm** |
| Amplitude Resolution: | **0.5 dBm** |
| Resolution Bandwidth: | **375 KHz** |
| Sweep Time: | **406 msec** |

## Supported Software

**Chanalyzer Lite**

## Requirements

| | |
|---:|:---|
| **OS** | Windows 7, Vista or XP (SP3) |
| **Mac OSX Virtualization** | VMware Fusion, Parallels |
| **Framework** | Microsoft .Net 3.5 |
| **Screen Resolution** | 1024 x 768 (or greater) |
| **RAM** | 1 GB (Rec. minimum) |
| **Processor** | 1 GHz (Rec. minimum) |
| **Wireless NIC (optional)** | WZC Compatible 802.11b, g, or n |

## Key Features

- **2.4 GHz (802.11 b,g, and 2.4 GHz n)**
- **Wi-Fi Info (when used with NIC)**
- **Internal Trace Antenna**
- **Real-Time Troubleshooting**
- **Bundled with Chanalyzer Lite**
- **DVR-like Timeframe Navigation**
- **Full 64-bit Support**

## Density View

The Density View displays raw spectrum data by frequency and amplitude point over a user-defined timeframe. The brighter the color, the more RF activity present. Density View is great for catching transmitters over time, and for finding interference trends.
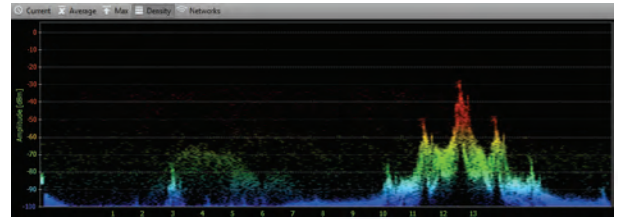
## Waterfall View

The Waterfall View displays RF activity over a defined timeframe in a rolling "waterfall." The brighter, or more red the color, the noisier the frequency. The Waterfall View shows when interference occurred and it's duration.
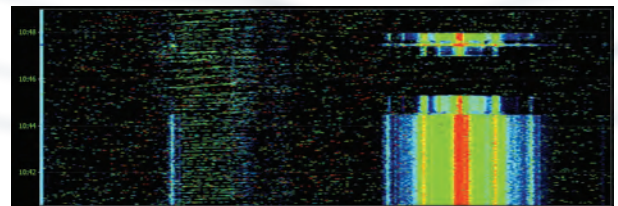
## Planar View

The Planar View graphically displays the maximum, average and current RF activity on a Density graph. The Planar View is a staple of traditional spectrum analyzers, and is included in Chanalyzer Pro with user-defined colors for complete customization.
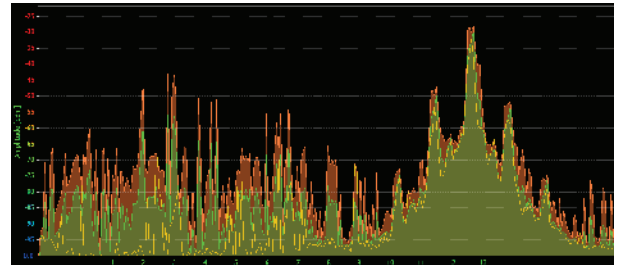
## Wi-Fi Channels Table

The Wi-Fi Channels Table plots average, current and maximum values, as well as the Noise Floor reading and number of placed Access Points to calculate a "grade" for each Wi-Fi or ZigBee channel.

## Wi-Fi Overlays

Using the wireless NIC in the computer, Chanalyzer Pro collects Wi-Fi data such as SSID, RSSI and channel of networks in the area. Data is overlaid on a Density View to provide a correlation between known Wi-Fi sources of RF and everything else (non-Wi-Fi) transmitting in the band.

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