

# chanalyzer pro

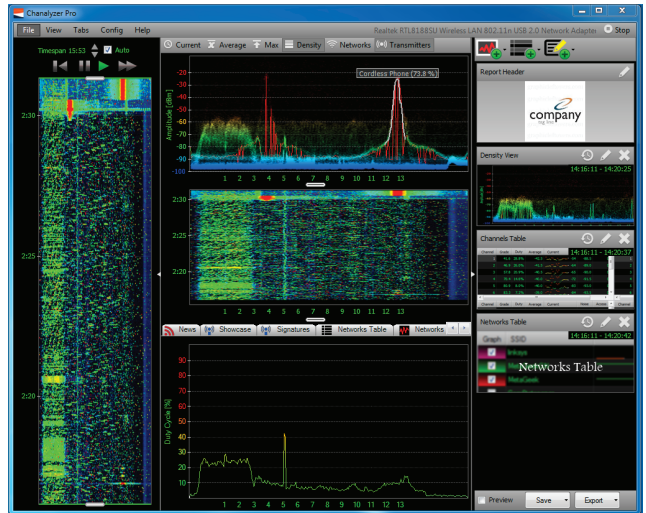
## Powerful RF Analysis For Wi-Fi

Chanalyzer Pro is designed from the ground up to be a hardcore software package for interference-busting professional users. Enjoy the satisfaction of a nearly perfect WLAN implementation with Wi-Fi-specific troubleshooting and deployment features.

If having a solid WLAN is mission-critical to your organization—or if you install and maintain wireless networks for a living and your name and reputation hinges on how well wireless networks behave after you're gone—Chanalyzer Pro is made for you.

Often imitated, Chanalyzer Pro includes a plethora of innovative, industry-leading features specific for Wi-Fi troubleshooting.

- Report Builder
- Complete Visual Timeline
- Adjustable Timeframe Display
- Unified Timeframe
- Device Classification
- Custom Classifiers
- Device Finder
- Integrated Wi-Fi Data
- Spectrum and Wi-Fi Data Logging
- Duty Cycle View
- Multi-Wi-Spy support
- Full 64-bit support



## Technical Specs

Maximum Zoom	1.0 MHz
Capture Limit	Dependant on hard disk space
Frequency Range:	
Wi-Spy DBx	2.400 to 2.495 GHz, 5.150 to 5.850 GHz
Wi-Spy 2.4x	2.400 to 2.495 GHz
Amplitude Range:	
Wi-Spy DBx	-100 dBm to -6.5 dBm
Wi-Spy 2.4x	-110 dBm to -6.5 dBm
Amplitude Resolution	0.5 dBm
Resolution Bandwidth:	
Wi-Spy DBx (2.4 GHz)	203.125 KHz
Wi-Spy DBx (5 GHz)	67.708 KHz
Wi-Spy 2.4x	187.5 KHz
Sweep Time:	
Wi-Spy DBx (2.4 GHz)	507 msec
Wi-Spy DBx (low 5 GHz)	1242 msec
Wi-Spy DBx (mid 5 GHz)	1587 msec
Wi-Spy DBx (high 5 GHz)	641 msec
Wi-Spy 2.4x	531 msec

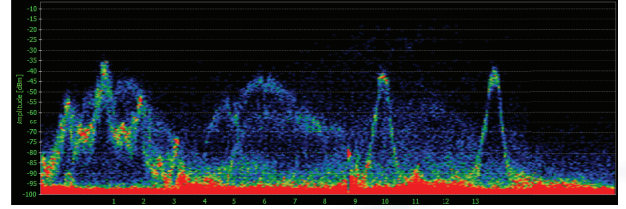
## Requirements

OS	Windows 7, Vista or XP (SP3)
Mac OS X Virtualization	VMware Fusion, Parallels
Framework	Microsoft .Net 3.5
Resolution	1024 x 768 (or Greater)
RAM	1 GB (Rec. Minimum)
Processor	1 GHz (Rec. Minimum)
Wi-Spy Hardware	Wi-Spy DBx or 2.4x
Wireless Adapter	802.11 a,b,g or n (for Wi-Fi features)

# visualize your wireless landscape

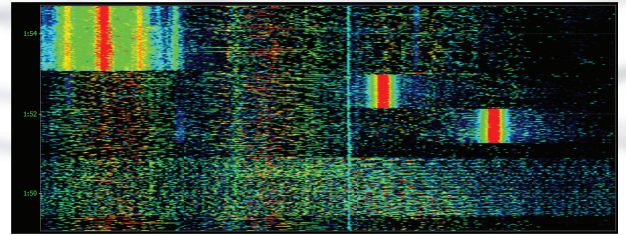
## Density View

The Density View takes raw spectrum data from over the user-defined time-frame and displays it by frequency and amplitude point. The brighter the color, the more RF activity. Great for catching transmitters over time as well as finding interference trends.



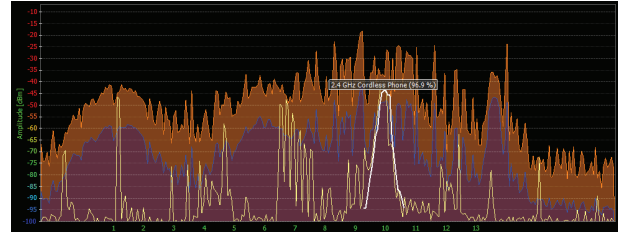
## Waterfall View

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



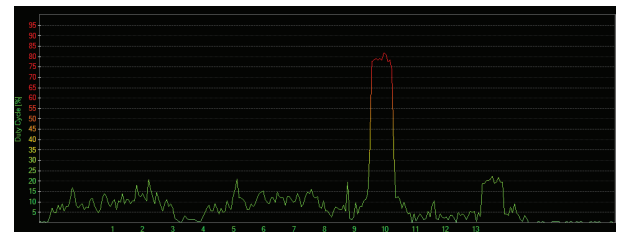
## Planar View

The Planar View graphically displays the MAX, AVERAGE and CURRENT activity overlaid on the Density graph. A staple view of traditional spectrum analyzers and included in Chanalyzer Pro with user-defined colors for complete customization.



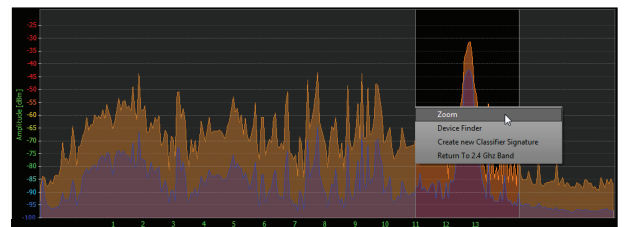
## Duty Cycle View

The Duty Cycle View shows the duty cycle, or how 'constant' RF activity is on any given frequency in an easy to read graph. Used for deciphering which channels are heavily used and which channels should be avoided.



## Frequency Zoom

Click-drag on the spectrum graph and zoom in to take a close, high resolution look at a specific frequency range. Highly granular with a 1.0 MHz maximum zoom setting.



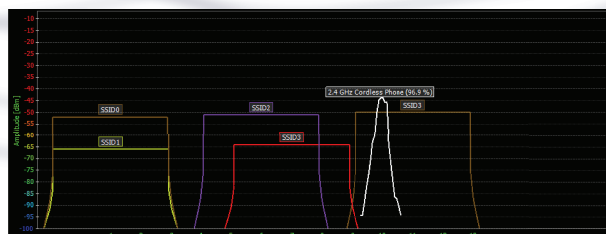
## Wi-Fi Channels Table

The Wi-Fi Channels Table gives the Average, Current and Max values as well as the Noise Floor reading and number of placed Access Points to give a “grade” to each Wi-Fi or ZigBee channel.

Channel	Grade	Duty Cycle	Average	Current	Noise Floor	Access Points	Max
1	78.0	9.2%	41.5	-52	-66.0	2	-50.5
2	78.9	8.3%	41.5	-52	-66.2	0	-50.5
3	83.1	8.3%	45.0	-59	-68.0	0	-51.0
4	75.5	8.5%	45.0	-72	-65.5	0	-50.5
5	78.7	8.3%	45.0	-80	-65.5	0	-49.0
6	75.9	9.6%	45.0	-75	-65.0	1	-49.5
7	74.2	9.9%	45.0	-75	-64.0	1	-49.5
8	46.1	23.6%	-51.5	-75	-68.0	0	-46.5
9	38.8	24.1%	-50.0	-75	-67.0	0	-48.0
10	34.5	22.3%	-50.0	-72	-67.0	0	-48.0
11	47.2	21.1%	-50.0	-72	-68.0	0	-49.0
12	68.2	14.1%	-50.5	-72	-65.5	0	-49.5
13	92.8	2.2%	-77.5	-72	-67.0	0	-58.5

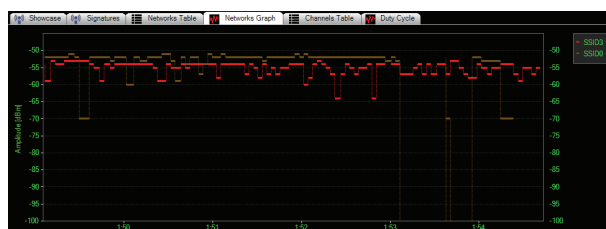
## Wi-Fi Overlays

Via the wireless NICE in the computer, Chanalyzer Pro collects Wi-Fi data such as SSID, RSSI and channel of networks in the area. This data is then overlaid in the Density View to give correlation between the known Wi-Fi sources of RF and everything else (non-Wi-Fi) transmitting in the band.



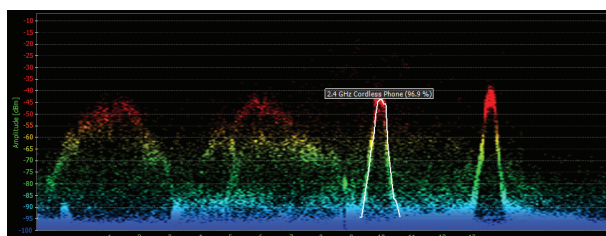
## Network Strength Graph

The Network Strength Graph takes the RSSI values (taken from network card) and graphs them over time. Great for linking network drop outs and decreased performance to specific occurrences of interference.



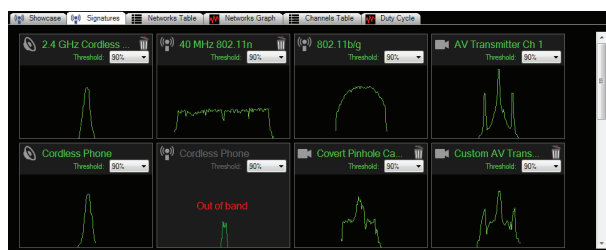
## Device Classification

Chanalyzer Pro automatically classifies known devices that are transmitting in the vicinity. The confidence level of a ‘match’ is displayed as a percentage with the classified device..



## Custom Classifiers

Adding to the Device Classification feature is the ability to make implement user-created classifiers, an industry first. Capture the silhouette by selecting it in the Density View and the classifier will be saved to identify that device in future scans.



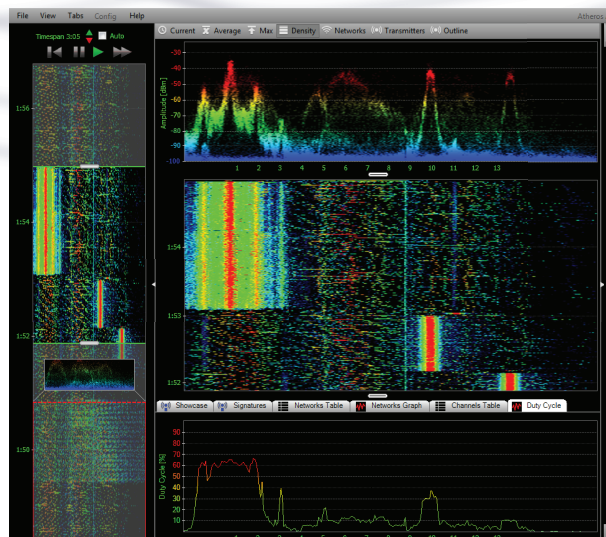
## Device Finder

Device Finder mode narrows-in on specific signals for easy analysis of how close--or far away from--you are from offending devices to allow you to walk straight to that device. Greatly enhanced by optional Device Finder Directional Antenna (DIRANT-24).



## Waterfall Timeframe Navigation

The Waterfall Timeframe Navigation feature gives an instant preview of the RF environment as the mouse cursor hovers over the timeframe. Each Chanalyzer Pro view updates to the timeframe the user selects as the timeframe handles are dragged to single-out instances of interference in the capture session.

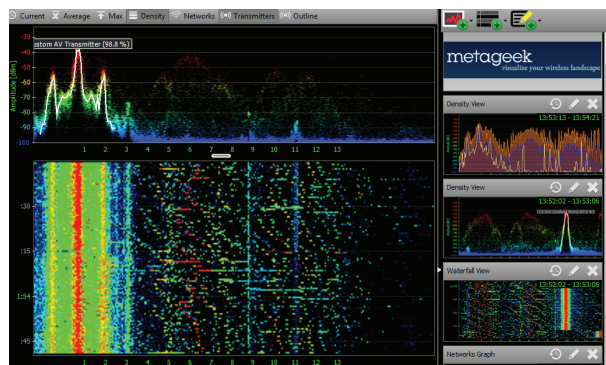


## Unified Timeframe

Every graph in Chanalyzer Pro Adjusts itself to the unified timeframe selected by the user in the left side of the user interface. This allows the user to drill down on various problems without re-initializing the views.

## Report Builder

The Report Builder feature allows for quick and easy creation of a spectrum analysis summary for a customer or management-facing report. Add Views, add text as well as save custom content for future reports. Brandable, customizable and exportable to PDF, HTML and RTF file formats.



## Multi-device Support

Monitor the 2.4 and 5 GHz band simultaneously with multiple Wi-Spys. All data is timestamped and placed into a single SQLite database.

