

WiPry-Spectrum Spectrum Analyzer for iOS

Oscium designs test equipment you want to get your 'hands on'. We leverage the intuitive features and touchscreen technology found in the iOS family of products (iPad, iPhone, iPod touch) making test equipment easier to use than ever. With WiPry-Spectrum, your phone, touch or tablet now becomes a powerful test equipment tool that you can use on-the-go. WiPry-Spectrum enables you to visualize real-time radio frequency signals in the 2.4GHz ISM band. It is perfect for detecting open WiFi channels and identifying unauthorized WiFi access points. WiPry-Spectrum adds yet another tool to your "iOS Test" toolbox.

Technical Specifications

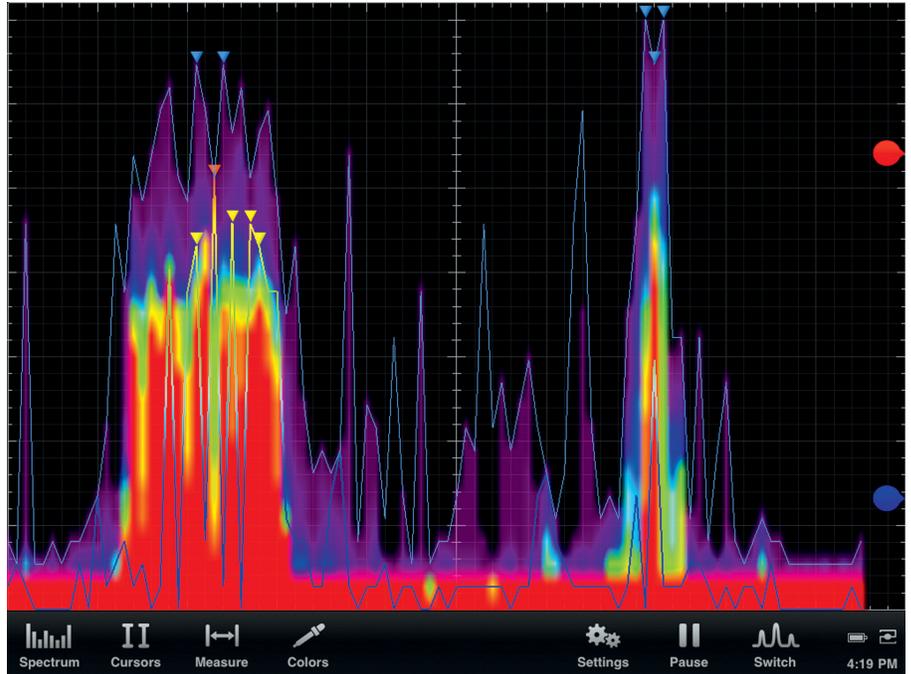
Frequency Range: 2.400 to 2.495 GHz
Antenna: External with SMB
Amplitude Range: -100dBm to -10dBm
Amplitude Resolution: 2.0dBm
Resolution Bandwidth: 1MHz
Sweep Time: 200ms

Highlights

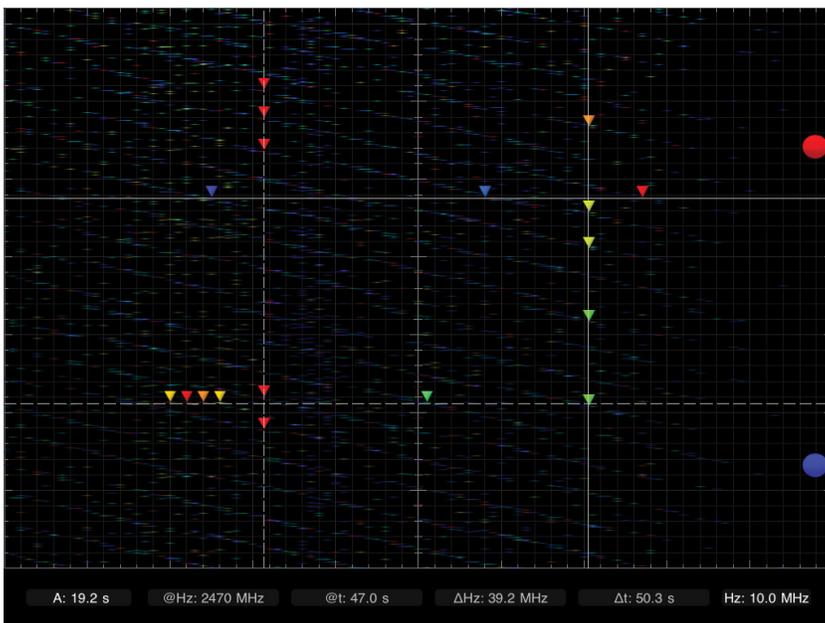
- World's First Spectrum Analyzer Accessory for the iOS Platform
- 2.4-2.495GHz
- Industry-leading Visualization Capabilities
- Data Logging (in csv format)
- Easiest, Most Intuitive Spectrum Analyzer You'll Ever Use
- Screenshots Can Be Emailed
- As Mobile As You Are

Fully Configurable Real-time Views

The real-time view has a variety of useful features such as average waveform, max hold, raw wave, heat map, and more. And these features can be enabled and disabled depending on what you want to do! The colorful display leverages the OpenGL display on your iOS device. In the screenshot to the right, max hold is outlined (in blue) along with identifiers showing the five peak signal amplitudes across the spectrum. The raw wave is also displayed within the colors and thresholds of the touch coloring bubbles on the far right side panel. Arrows indicate the current peak signals with color indicating the amplitude (also matching the coloring bubbles). In the picture, you can clearly see WiFi on the left side as the wide band and a single DSSS transmission as the narrow spike on the right.



Waterfall View



The waterfall view shows RF activity as frequency over time with data moving from the top of the screen toward the bottom. This is perfect for analyzing frequency hopping systems and other protocol related phenomenon.

Measurements can be enabled to identify rows are displayed over the horizontal and vertical cursors with the color of the arrow indicating the intensity of the signal peaks (with red arrows indicating the greatest intensity). Once activated, these markers track up to five peaks along each axis, giving you the ability to visualize RF activity between 2.4GHz and 2.495GHz.

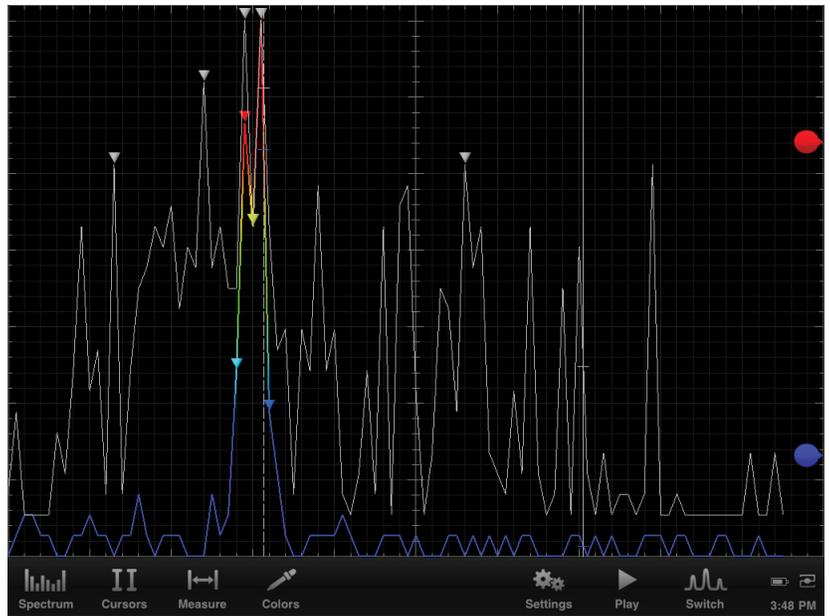
Real-time Wave -> Additional Features

The real-time view can be adjusted to give you the optimal view for your specific task. In the sample picture on the right, we see raw RF spectrum activity as the colored waveform. Decay data is also shown as the light grey waveforms in the background. Waveform colors can be adjusted by clicking on the color tab.

When cursors are activated in this view real-time dynamic measurements are displayed in either mW or dBm for each of the active waveforms.

The red and blue bubbles on the right side allow you to set the real-time waveform coloring. This is extremely useful for setting viewable thresholds.

A quick double tap of the screen allows you to leverage the simple touch interface and also to see the cursor measurements, graph amplitudes, and graph frequencies.



Supported Platform

WiPry-Spectrum is compatible with all generations of the iPod Touch, iPhone, and iPad devices running iOS version 3.1.3 or higher. Test drive the software for free by downloading WiPry from the Apple App Store. Three distinct products are available under the WiPry brand: WiPry-Spectrum, WiPry-Power, and WiPry-Combo. Once hardware is connected, the system will automatically recognize and enable the appropriate functionality.

Languages: English, French, German, Italian, Spanish

Which WiPry is Right For You?

	WiPry-Spectrum	WiPry-Combo
Spectrum Analyzer	●	●
Dynamic Power Meter		●
Price	\$99.97	\$199.97