HONEYCOMB™

RF Interference-Mapping Site Surveys

HoneyComb™ is Tablet UMPC or iPAQ+PC interference-mapping software designed for use with the BumbleBee™ handheld spectrum analyzer or BumbleBee™-TABLET spectrum analyzer systems. It consists of three parts: Projector, Collector, and Analyzer. Sources of interference can be separated from 802.11 WLAN signals, allowing the user to graph severity of interference, percentage of channel capacity remaining and other significant interference related quantities. HoneyComb™ aids in locating jamming interference, unintentional interference and network intrusion as well as channel verification. HoneyComb™ will also map all likely signal sources and strengths for helping to clear "RF free zones." Floorplans or site maps can be used as a reference to collect data leaving the resulting interference maps to be overlayed onto floorplans for easy identification of interference prone areas.

1 Create Survey Maps:

BVS Projector

Import any image file of a floorplan or site
Create a distance projection
Add simple objects to image
Add custom objects to floorplan
Scale and crop image
Save for use in Collector and Analyzer

2 Instant RF Surveys:

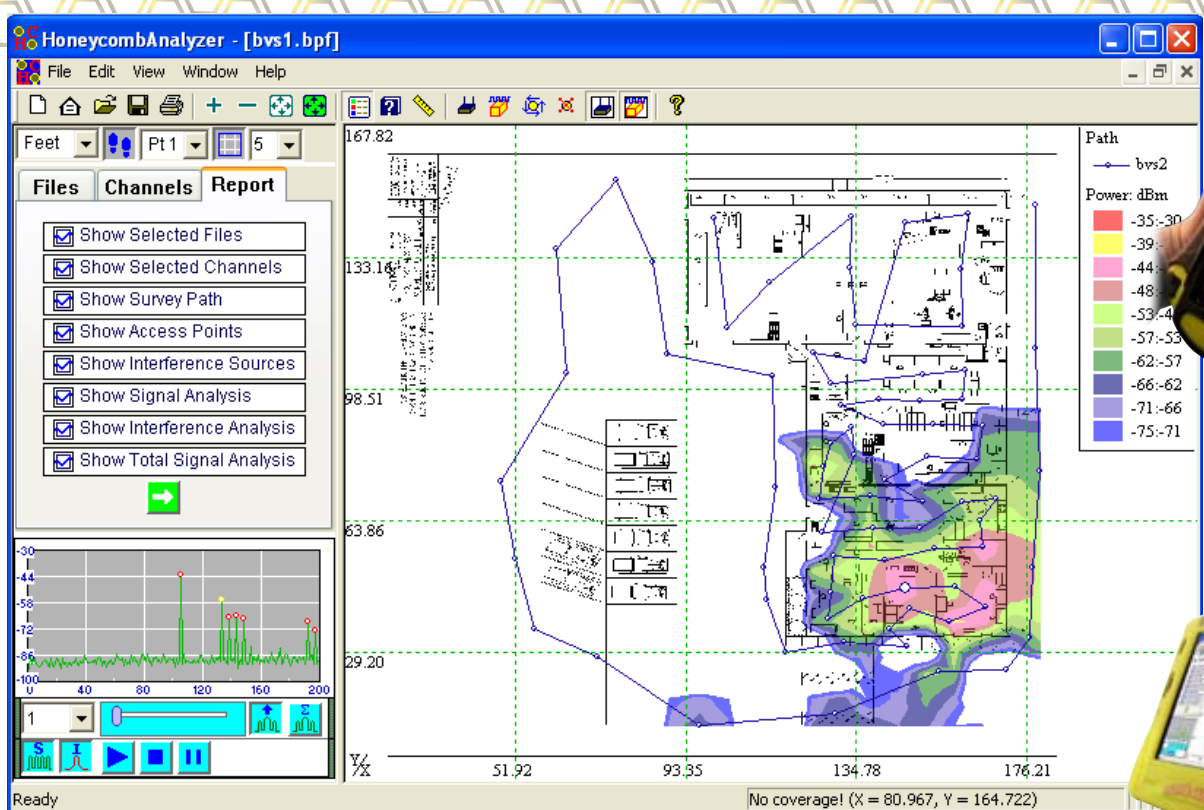
Honeycomb Collector

Save multiple data files using same projection file
Ability to choose up to 26 802.11b/a/g channels
Adjust period of scan for each channel
Automatically saves data to file
Take screen snapshots of any site
Shows walk/drive path
Access information on any point at any time

3 Plot Interference Analysis:

Honeycomb Analyzer

Imports data from other Honeycomb applications
Detect/Separate interference from Wi-Fi signals
Plot and view interference-related problems
Plot and view "RF free zones"
Print and export plots into bmp files
Create a HTML report for any survey area



Honeycomb™ allows either BumbleBee handheld (iPAQ) or BumbleBee-TABLET users to map interference using BVS receiver technology.

Call us today for more information:
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www.bvsystems.com email: sales@bvsystems.com

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HONEYCOMB SITE SURVEY REPORT

Interference Survey Report with BVS Honeycomb Software

Report date: Tue Jul 11 15:52:34 2006

Map/Projection File: C:\VisualStudio\InterferenceMon\Honeycomb_Example\bvs1.bpf

Survey's Infomation

Index	File Directory & Name	Created Time	File Notes
1	C:\VisualStudio\InterferenceMon\Honeycomb_Example\bvs2.bsd	Mon Jun 12 12:32:56 2006	Surveyed by H.C.

Survey Channel Information

Index	Channel #	Center Freq. (MHz)	Notes
1	1	2412	This channel will be used.
2	9	2452	This channel will not be used.

Access Point's Information

Index	SSID	MAC	Channel	Y Axis(Ft)	X Axis(Ft)
1	BVS_TEST1	12-34-56-78-9a-bc	1	34.577	164.145

AP's Antenna Information and Notes

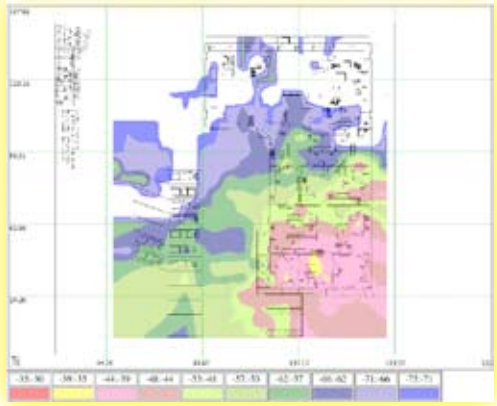
AP's Name	Trans. Power(dBm)	Antenna Gain	Height(Ft)	Direction(Deg)	Notes
Honeycomb1	20	2 dBi	3	360 (Omni)	Used for test

Interference Source's Information

Index	Name	Frequency	Bandwidth	Y Axis(Ft)	X Axis(Ft)	Notes
1	Bluetooth Device	2.400-2.482 GHz	1 MHz	49.083	164.145	Used for Test

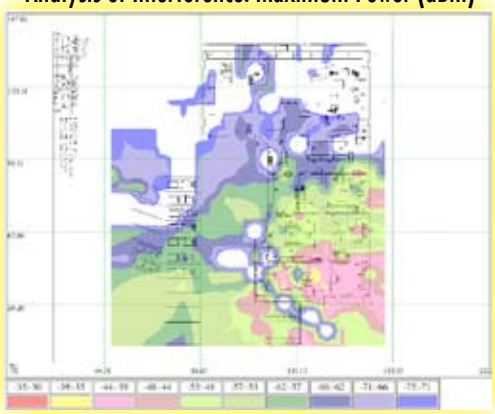
Analysis of WLAN Signal:Combined Analysis (dBm)

Analysis of Total Signal (Signal+Interference):Maximum Power Analysis

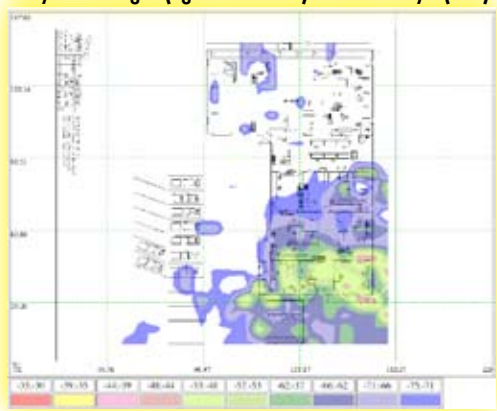


Survey Path

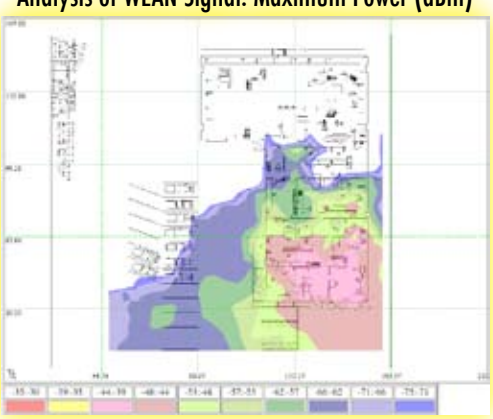
Analysis of Interference: Maximum Power (dBm)



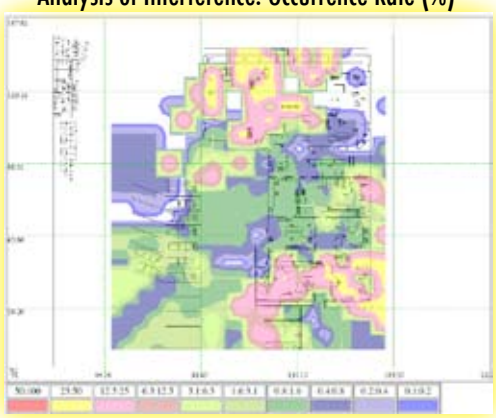
Analysis of Total Signal (Signal+Interference):Combined Analysis (dBm)



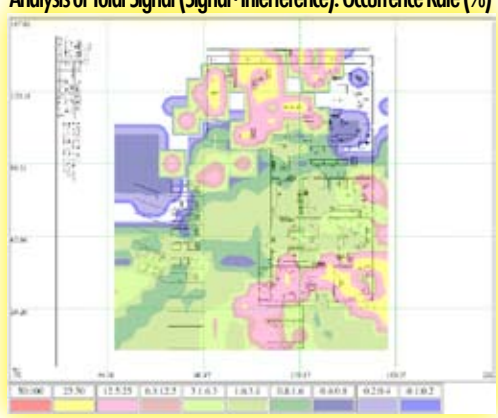
Analysis of WLAN Signal: Maximum Power (dBm)



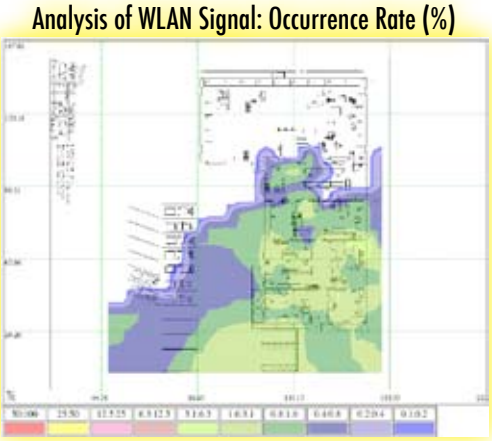
Analysis of Interference: Occurrence Rate (%)



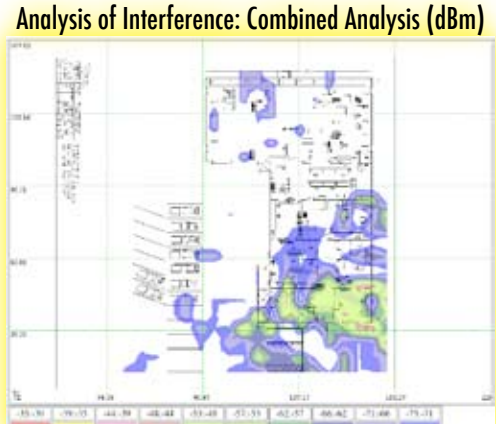
Analysis of Total Signal (Signal+Interference): Occurrence Rate (%)



Analysis of WLAN Signal: Occurrence Rate (%)



Analysis of Interference: Combined Analysis (dBm)



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