HONEYCOMB ™

RF Interference-Mapping Site Surveys
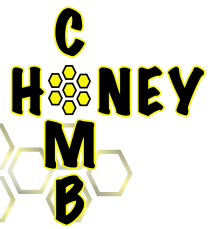
C O M B
H O NEY

1 Create Survey Maps:
HoneyComb Projector (PC)

- 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

HoneyComb™ is an interference-mapping tool with the use of BVS Bumble Bee®. 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, 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.
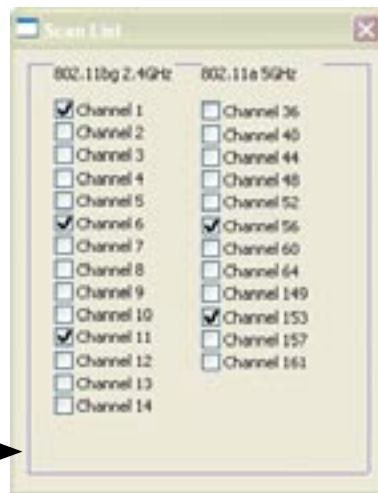
Honeycomb™ allows users to take measurements at anytime in the field using your iPAQ and Berkeley's calibrated receiver technology.

Honeycomb™ scan list allows users to search all Wi-Fi channel allocations for 802.11b/a/g while still in the field.

Scan List

802.11bg 2.4GHz	802.11a 5GHz
☑ Channel 1	☐ Channel 36
☐ Channel 2	☐ Channel 40
☐ Channel 3	☐ Channel 44
☐ Channel 4	☐ Channel 48
☐ Channel 5	☐ Channel 52
☑ Channel 6	☑ Channel 56
☐ Channel 7	☐ Channel 60
☐ Channel 8	☐ Channel 64
☐ Channel 9	☐ Channel 149
☐ Channel 10	☑ Channel 153
☑ Channel 11	☐ Channel 157
☐ Channel 12	☐ Channel 161
☐ Channel 13	
☐ Channel 14	

2 Instant RF Surveys:
Honeycomb Collector (iPAQ)

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

Untitled - Honeycomb Analyzer

File   View   Window   Help

View Options
Transparency

Channel Selection
Select Power Range in dBm

Plot Contour

Ready

Power: dBm
- -37 -30
- -44 -37
- -51 -44
- -58 -51
- -65 -58
- -72 -65
- -79 -72
- -86 -79
- -93 -86
- -100 -93

(X = 855.872, Y = 587.004, Power = -91 dBm)

3 Plot Interference Analysis:
Honeycomb Analyzer (PC)

- Imports data from other Honeycomb applications
- Detect/Separate interference from Wi-Fi signals
- Interference severity and channel
- Plot and view interference-related problems
- Wi-Fi channel capacity for intrusion detection
- Plot and view "RF free zones"
- Print and export plots into bmp files
- Create a HTML report for any survey area
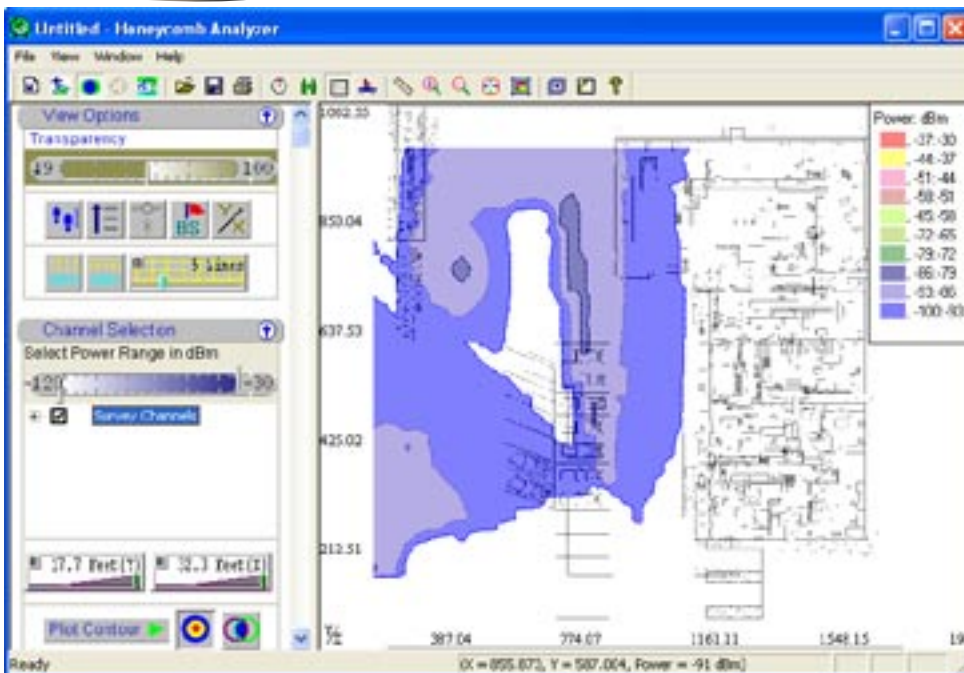
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(732) 548-3737 / Fax: (732) 548-3404
Internet: www.bvsystems.com
E-mail: info@bvsystems.com

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