

# BEETLE™ 2.4 GHz SCANNER

## IEEE 802.11b WLAN INSTALLER



**Beetle™** is a handheld, wireless receiver designed specifically for sweeping, installing and optimizing Wireless Local Area Networks. The instrument measures coverage of DSSS **IEEE 802.11b** networks. **Beetle™** measures and displays signal strength of ALL APs (Access Points) on ALL 14 DSSS channels, ALL MAC addresses as well as PERs (Packet Error Rates), SSID and WEP encryption detection. **Beetle™** detects and differentiates from narrow-band interferences such as microwave ovens and frequency hopping systems and features a built-in display, menu navigation keypad and removable, rechargeable batteries for true portability. Perfect for installs as well as antenna alignments and other optimizations.



*Beetle will measure and display ANY 802.11b Access Point (up to 64) on ANY channel (1-14).*

MAC Address	CH	dbm
000300510A7A7B	1	-88
000220389929	1	-77
00306501DB8E	1	-74
0002200FC922	1	-81

### FEATURES:

- Measure coverage of all 14 channels for direct sequence (DSSS) wireless networks (wideband IF 22 MHz)
- Tests ALL 2.4 GHz DSSS networks (base stations & STAs) complying with **IEEE 802.11b** standard
- Measures correlated signal strength using a custom, calibrated receiver
- Low-cost instrument that any field technician can afford
- Measures Packet Error Rate for base stations or client cards
- Measures and displays power across 22 MHz channel of individual stations total channel power
- SSID Identification and WEP security encryption detection
- Light-weight, portable and rugged design ideal for realtime network analysis
- Removable battery power (4 AA Ni-MH cells with 4 extra batteries & charger included)
- Built-in 128 x 64 Graphic backlit LCD with simple menu interface and navigation

The Beetle is just one of many exceptional design solutions from Berkeley Varitronics.

Call us today for more information:  
 (732) 548-3737 / Fax: (732) 548-3404  
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 E-mail: [info@bvsystems.com](mailto:info@bvsystems.com)



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### BANDS SUPPORTED

ISM: 2.400-2.485 GHz

### RF SENSITIVITY (Wide Band)

-20 to -90 dBm

### RSSI MEASUREMENT (Narrow Band)

-30 to -90 dBm @ 687.5 kHz resolution bandwidth

### TUNING INCREMENTS

Tunes 11 USA channels & 3 international channels

### PACKET PREAMBLE DEMODULATOR and ANALYZER:

Multipath Measurement and Graphical Display

### POWER MEASUREMENTS:

AP Power Measurement

### RATIO

-20 dBm : -90 dBm

### GENERAL SPECIFICATIONS

IF Bandwidth:

Wideband 22 MHz

Stability:

$\pm 2.5$  PPM Temp range 32° to 120 F°

Antenna:

SMA Female 50 ohm

Controls:

4 button keypad

Warm Up Time:

< 3 minutes

Power:

Internal battery pack (4 AA Ni-MH batteries)

Weight:

Under 2 lbs.

Dimensions:

2" H x 4" W x 9" L (water resistant, high impact ABS plastic case)



Beetle includes 8 AA Ni-MH batteries, fast-charger, straight 3dBi 2.4 GHz antenna (SMA Female 50 ohm) and belt holster.