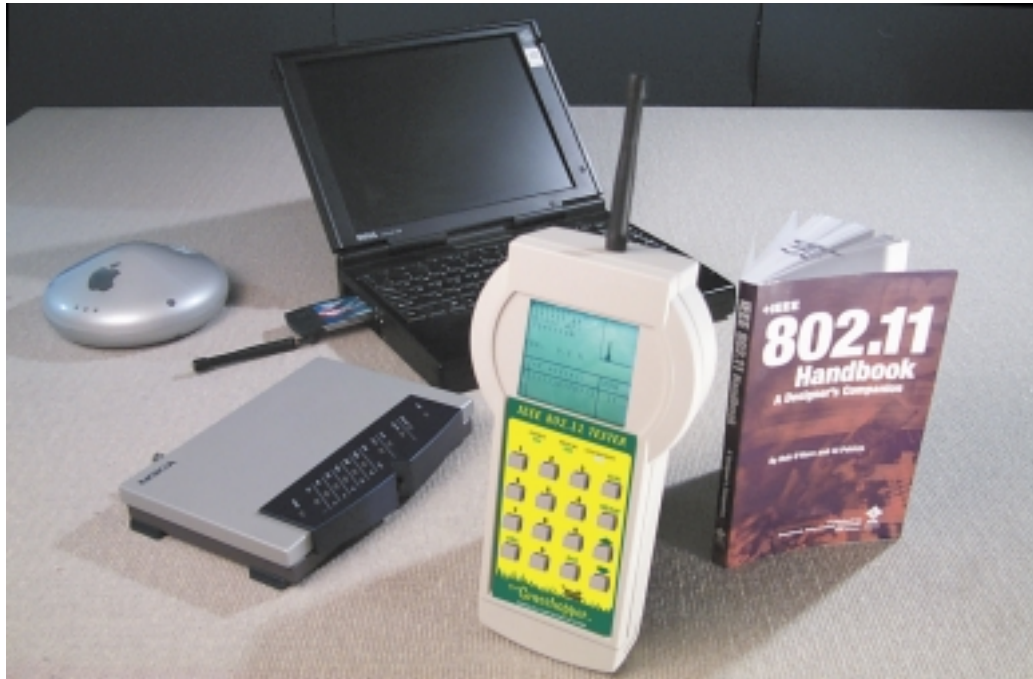


Grasshopper™ WLAN 2.4 GHz SCANNER IEEE 802.11 TESTER



Grasshopper™ is a handheld, wireless receiver designed specifically for sweeping and optimizing Local Area Networks. The instrument measures coverage of direct sequence CDMA networks which operate on the **IEEE 802.11b** standard allowing the user to measure and determine the AP (Access Point), PER (Packet Error Rate), and RSSI signal levels aiding in locating the

hub and access points throughout a building. **Grasshopper™** detects and differentiates from narrow-band multipath interferences such as microwave ovens and frequency hopping systems and features a built-in display, keypad and removable battery pack for true portability.

FEATURES:

- Measure coverage for direct sequence (DSSS) wireless networks (wideband IF 22 MHz)
- Tests 2.4 GHz DSSS networks operating within the **IEEE 802.11b** standard
- Measures Packet Error Rate
- Measures and displays channel time dispersion for multipath analysis
- Measures and displays RF power measurements: narrow band received signal strength (RSSI), total channel power
- Light-weight, portable and rugged design ideal for realtime network analysis
- Removable battery pack (5 AA Ni-MH cells)
- Built-in numeric keypad, backlit display with simple menu interface

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

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



Grasshopper™

WLAN 2.4 GHz SCANNER

IEEE 802.11 TESTER

BANDS SUPPORTED	ISM: 2.400-2.485 GHz
RF SENSITIVITY (Wide Band)	-20 to -90 dBm
RSSI MEASUREMENT (Narrow Band)	-30 to -90 dBm @ 100 kHz resolution bandwidth
TUNING INCREMENTS	50 kHz steps

PACKET PREAMBLE DEMODULATOR and ANALYZER:

Multipath Measurement and Graphical Display

CORRELATED POWER MEASUREMENTS:

	<u>RATIO</u>
Correlated Power (dBm)	-30 dBm : -100 dBm
Correlated Power to Total Power Ec/Io (dB)	0 dB : -10 dB
Total Channel Power Measurement	-20 dBm : -90 dBm

GENERAL SPECIFICATIONS

IF Bandwidth:	Wideband 22 MHz
Stability:	± 2.5 PPM Temp range 32° to 120 F°
Antenna:	SMA Female 50 ohm
Controls:	20 button keypad
Warm Up Time:	< 3 minutes
Power:	Internal battery pack (5 AA Ni-MH batteries)
Weight:	3 lbs.
Dimensions:	2" H x 4" W x 9" L (water resistant, high impact ABS plastic case)

*Multipath and signal quality assessment via comparison of correlated power to total channel power ratio and correlated power.

*Features graphical display of multipaths.

*Interference detection via RSSI scan and active DSSS 802.11 channel scan.

Grasshopper includes a straight 3dBi 2.4 GHz antenna (SMA Female 50 ohm), two removable battery packs (5 AA Ni-MH cells each) charger, RS-232 cable all in a rugged carrying case.

