HANDHELD RUGGEDIZED SPECTRUM ANALYZER



SUPPORTS
Wi-MAX frequencies

IDENTIFIES
802.11b/a/g frequencies

SCANS
VolP frequencies

ANALYZES
Bluetooth frequencies

all-in-one system. The handheld receiver measures the popular wireless Wi-Fi/Wi-MAX frequencies between 2.0-4.0 & 4.9-5.9 GHz. Combletes allows users to scan, display and record multiple RF waveforms for network installation, coverage and interference analysis. The color, touch-screen allows field engineers to tap on points of interest in any waveform and "zoom" in for further analysis. Advanced spectrum analysis features include 3 waveform, peak hold, peak search and user selectable packet / interference triggers. Combletes standards including RFID, VoIP, 802.11b/a/g & Bluetooth as well as unidentified RF interference such as microwaves and cordless phones. Combletes EX takes the power of sophisticated laboratory spectrum analyzers and puts it in user's hands.

BUMBLE BEE-EX FEATURES:

- **2.0-4.0 & 4.9-5.9 GHz SPECTRUM ANALYSIS**
- **Wi-MAX, RFID, VoIP, 802.11 & OTHER ISM FREQUENCIES**
- **COLOR, TOUCH-SCREEN INTERFACE**

BVS custom hardware ensures the most accurate of measurements for any handheld on the market.

- **PEAK HOLD / SEARCH**
- **PACKET / INTERFERENCE TRIGGERS**
- **WAVEFORM JPEG SNAPSHOTS**



Berkeley Varitronics Systems 255 Liberty Street, Metuchen, NJ 08840 (732) 548-3737 / Fax: (732) 548-3404 www.bvsystems.com



Frequency:

Ranges: 2000 - 2500 MHz ISM Band (802.11/802.11b/g standard)

> 3400 – 3600 MHz 4940 – 4990 MHz

(Public Safety Band) 5150 - 5500 MHz U-NII (802.11a standard) 5500 - 5900 MHz U-NII (802.11a standard)

50 kHz to 800 MHz Span:

Resolution bandwidth: 50 kHz - 1 MHz (50, 100, 300, 500, 1 MHz)

Automatic 802.11 preset bandwidths 100 kHz – 1 MHz (50 kHz steps)

Video bandwidth (smoothing): Screen Averaging: 1 – 100 Averages

Reference Stability:

± 2.5 PPM 800 mSec (20 MHz span, 50 kHz resolution bandwidth) Sweep Time:

Amplitude:

Average Noise Floor (No input): < -100 dBm (reference level -70 dBm)

Dynamic Range: > 40 dB

Level Accuracy: ± 1.5 dB (25 deg. C)

Max input (safe): + 0 dBm Max input (no saturation) - 20 dB

Reference level: -20 to -70 dBm (10 dB steps)

Display/Operating System/Memory: 3 colors Number of traces:

Trace settings:

Peak hold, screen average

Peak search, center frequency, left, right, delta Marker functions:

Screen shots saved to .jpg file see HP2795 specifications

Operating system (iPAQ): Windows® Mobile 5.0

Triggering:

Auto or Manual:

Display (iPAQ):

Packet/Interference Trigger: Trigger analyzer when input power meets or exceeds threshold (20 MHz span)

Trigger threshold: user settable in dBm. Trigger delay: user settable in mS.

Input Connector: SMA Female, 50Ω

Power:

Internal battery: (Li-PO), AC or DC

> 3 hours Run time (internal battery): < 1 hour Re-charge time:

Physical Specifications:

Weight: 3 lbs.

6"H x 4"W x 6"L Dimensions: