Bumble Bee-EX™

HANDHELD RUGGEDIZED SPECTRUM ANALYZER

& 4.9-5.9 GHZ

2.0-4.0 GHZ

SUPPORTS
Wi-MAX frequencies

IDENTIFIES
802.11b/a/g/n frequencies

SCANS
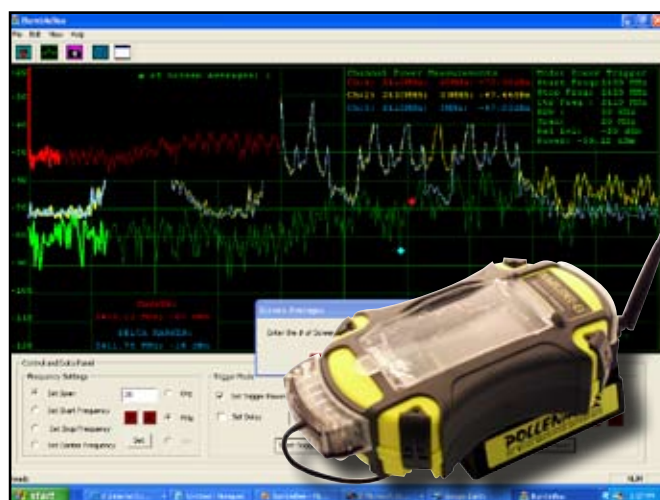**VoIP** frequencies

ANALYZES
Bluetooth frequencies

BumbleBee-EX™ is a rugged, calibrated spectrum analyzer 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. **BumbleBee-EX** 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 power triggers. **BumbleBee-EX** allows for realtime spectral analysis of many wireless standards including RFID, VoIP, 802.11b/a/g & Bluetooth as well as unidentified RF interference such as microwaves and cordless phones. **BumbleBee-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**

🐝 **3 WAVEFORM TRACES**

🐝 **PEAK HOLD / SEARCH**

🐝 **PACKET / INTERFERENCE TRIGGERS**

🐝 **WAVEFORM JPEG SNAPSHOTS**

🐝 **NECTAR PC SPECTRUM ANALYSIS SOFTWARE (OPTIONAL)**

Now you can have all the power of BumbleBee-EX on your PC with Nectar™ spectrum analysis software and Berkeley's Pollenator™ USB/Ethernet PC interface.

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BERKELEY VARITRONICS SYSTEMS®
Clarifying RF

Bumble Bee™-EX

HANDHELD RUGGEDIZED SPECTRUM ANALYZER

Frequency:
Standards: Wi-Fi 802.11b/a/g
Wi-MAX
ISM Band
Public Safety
U-NII

Span: 50 kHz to 800 MHz
Resolution bandwidth: 50 kHz – 1 MHz (50, 100, 300, 500, 1 MHz)
Automatic 802.11 preset bandwidths
Video bandwidth (smoothing):   100 kHz – 1 MHz (50 kHz steps)
Screen Averaging: 1 – 100 Averages
Reference Stability: ± 2.5 PPM
Sweep Time: 800 mSec (20 MHz span, 50 kHz resolution bandwidth)

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:
Number of traces: 3 colors
Trace settings: Peak hold, screen average
Marker functions: Peak search, center frequency, left, right, delta
Screen shots saved to .jpg file
Display (iPAQ):   see HP2795 specifications
Operating system (iPAQ):   Windows® Mobile 5.0

Triggering:
Auto or Manual:
Packet/Interference Trigger: Trigger analyzer when input power meets or exceeds threshold (20 MHz span)
Trigger threshold: user settable in dBm.
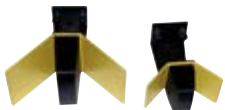Trigger delay: user settable in mS.

Input Connector: SMA Female, 50Ω

Power:
Internal battery: (Li-PO), AC or DC
Run time (internal battery):   > 3 hours
Re-charge time: < 1 hour

Physical Specifications:
Weight: 3 lbs.
Dimensions: 6"H x 4"W x 6"L

Optional 2.4 GHz   Optional 5 GHz   Optional 30 dB Attenuator   Optional 12V Power Inverter   Optional Logging Software   Mapping Software   RF Analysis Software