

that interfaces with HP's iPAQ® PocketPC®. The handheld receiver measures 4 distinct wireless bands: 900 MHz, 2.4-2.5 GHz, 5.15-5.50 GHz & 5.5-5.9 GHz. The handheld allows the user to capture, display and record each of these bands for network installation, coverage and interference analysis. The iPAQ's touch screen allows field engineers to tap on points of interest in the waveform and "zoom" in for further analysis. Advanced spectrum analysis features include 3 waveform traces, peak hold, peak search, and user selectable power triggers. The iPAQ's allows for on-the-fly switching of bands for realtime spectral analysis of many wireless standards including RFID, VoIP, 802.11(b,a,g & Bluetooth) and cordless phones/video.

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BUMBLE BEE FEATURES:

- **⋘ 900 MHz, 2.4-2.5 GHz, 5.15-5.5 GHz & 5.5-5.9 GHz SPECTRUM ANALYSIS**
- **▼ IDENTIFY RFID, VoIP, 802.11 & OTHER ISM RF SPECTRUMS**
- **M HP iPAQ POCKETPC INTERFACE**
- **3 WAVEFORM TRACES**
- **PEAK HOLD / SEARCH**
- PACKET / INTERFERENCE TRIGGERS
- **WAVEFORM JPEG SNAPSHOTS**





Frequency:

Ranges: 902-928 MHz ISM Band

2400 - 2500 MHz ISM Band (802.11/802.11b/g standard)

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 Video bandwidth (smoothing): 100 kHz - 1 MHz (50 kHz steps)

1 - 100 Averages Screen Averaging: 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)

> 40 dBDynamic Range:

Lével Accuracy: ± 1.5 dB (25 deg. C)

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

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

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

Trace settings: Peak hold, screen average

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

Screen shots saved to .jpg file see HP4700 or HP2200 specifications Display (iPAQ):

Pocket PC™ 2003 Operating system (iPAQ):

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.

SMA Female, 50Ω Input Connector:

Power:

Internal battery: (4 AA Ni-MH), AC or DC

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

Physical Specifications:

Weight: 3 lbs.

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

Accessories:

900 MHz Antenna 2400 MHz Antenna 5 GHz Antenna

Optional Accessories:

HX4700 or HX2400 series iPAQ 12V Car Adapter 900 MHz Yagi Antenna 2.4 GHz Directional Antenna 5 GHz Directional Antenna 5 Watt dB attenuator pad

Use Berkeley's optional watt attenuator pad when connected directly to an AP.

