

# YELLOWJACKET™ PLUS A

## 802.11a Wi-Fi Analysis System

**Yellowjacket™ PLUS 802.11a** is a wireless receiver designed to work with HP's iPAQ® PocketPC® (built-in) in sweeping, analyzing and optimizing 5 GHz Wireless Local Area Networks. The receiver measures 8 OFDM network channels which operate on the **IEEE 802.11a** standard allowing the user to determine the AP's MAC address, SSID and RSSI signal levels for locating and optimizing access points of neighboring WLANs. **Yellowjacket™ 802.11a** system uses a custom receiver, custom software and interfaces with the iPAQ series giving Yellowjacket the distinction of being the only true RF analysis and direction finding tool accurate to within 1 dB. Berkeley's 5 GHz calibrated receiver measures 8 OFDM network channels operating on the **IEEE 802.11a** standard identifying all access points on or off any 802.11a WISP or Hotspot. **Yellowjacket™ PLUS 802.11a** also contains an optional internal 12-channel GPS receiver for geo-coding of all 802.11a measurements taken.



# 802.11a

### FEATURES:

- Measure 5 GHz coverage for (OFDM) WLANs (IF wideband 22 MHz) within the **IEEE 802.11a** standard
- Receive, filter and process DSSS studies all in Windows CE®
- 64K color backlit display for real-time color-coded signal analysis
- Touch screen, Windows® PDA-like interface using a stylus pen
- Integrated HP iPAQ® PocketPC® PDA
- Measures RSSI (narrow band & total channel power)
- Complex Access Point Analysis including RSSI, Absolute Channel, Survey Sweep and SSID
- FER (system-wide)
- JPEG snapshot any screen instantly for later analysis
- Optional internal 12-channel GPS receiver available
- Optional Dolphin™ Real-time GPS mapping software available
- Removable battery pack (5 AA Ni-MH cells) and also can be powered from 12VDC car cigarette lighter

### YellowjacketPLUS Measurements:

- ✓ MAC
- ✓ SSID
- ✓ Total Channel Power
- ✓ Narrowband RSSI
- ✓ Survey Sweep
- ✓ AP Manufacturer's ID
- ✓ LAT/LONG/ALT/UTC via GPS



Yellowjacket 802.11a scans and displays all APs listing them by channel, MAC, SSID and RSSI.

Call us today for more information:  
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### BANDS SUPPORTED

U-NII lower band (5.180 - 5.240 GHz) (channel numbers 36,40,44,48)  
U-NII middle band (5.260 - 5.320 GHz) (channel numbers 52,56,60,64)

### RF SENSITIVITY (Wide Band)

-20 to -90 dBm

### RSSI MEASUREMENT (Narrow Band)

-30 to -90 dBm @ 156 kHz resolution bandwidth

### TUNING INCREMENTS

Tunes 8 channels (36,40,44,48,52,56,60,64)

### RECEIVER GENERAL SPECIFICATIONS

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



YellowjacketPLUS™ output data supports Microsoft Excel spreadsheets as well as Berkeley's own Hive™ Real-time Indoor/Outdoor Mapping solution on iPAQ PocketPC®. No GPS required.



Yellowjacket's optional Direction Finding Antenna pinpoints WLAN hackers and specific sources of interference.



### YELLOWJACKET FEATURES:

#### SPECTRUM MODE:

- Full spectrum (8 channel) sweep
- Single channel zoom
- Peak Search and Hold
- 3 distinct waveform signal traces

#### AP ANALYSIS:

- Survey sweep of all channels
- Individual channel analysis
- Absolute channel
- SSID
- AP manufacturer's ID
- RSSI in true dBm
- "Geiger Mode" for direction finding individual APs

#### NETWORK SECURITY:

- Authorize or Unauthorize up to 1000 MAC addresses
- Generate valid AP list automatically
- Upload AP list from PC
- Flag invalid APs as "suspect"

