**Yellowjacket® B/A/N/G** is a wireless test receiver system that demodulates, sweeps, analyzes, and optimizes all popular 802.11 Wi-Fi network standards including 802.11b/g (2.4 GHz), 802.11a (5 GHz) and even 802.11n. The calibrated receiver is a passive measurement device that is network independent so it remains “invisible” to any Wi-Fi network. **Yellowjacket® B/A/N/G** is also a powerful spectrum analyzer that measures RF energy (2.0-4.0 & 4.9-5.9 GHz) allowing not only detailed interference analysis but the ability to see the “whole picture” of your 2.4 and 5 GHz network WISP or hotspot. When equipped with a BVS DF (Direction Finding) antenna, **Yellowjacket® B/A/N/G** locates and pinpoints rogue APs and STAs and even detects spurious interference from sources such as microwave ovens and cordless phones. Powerful packet analysis features such as Multipath (Ec/Io), Delay Spread, Channel Frequency Response (CFR), SSID and Received Signal Strength Indicator (RSSI) give **Yellowjacket® B/A/N/G** the distinction of being the only true handheld RF spectrum protocol analysis and direction finding tool accurate to within 1 dB. **Yellowjacket® B/A/N/G** functions as a complete WLAN analysis system offering both measurements made through packet demodulation and spectrum analysis in a rugged, handheld package.

**FEATURES:**

- Measure 2.4 GHz coverage for DSSS and OFDM WLANs within the IEEE 802.11b/n/g standard
- Measure 5 GHz coverage for OFDM WLANs within the IEEE 802.11a standard
- Receive, filter and process DSSS and OFDM studies all in a handheld Windows Mobile OS® environment
- 802.11 packet Demodulation tools for Channel Frequency Response and Antenna Alignment
- Complex AP / STA list analysis including Multipath, Absolute Channel, and SSID
- Full Spectrum Analysis including Power Triggers, Waveform Traces & Full Spectrum Sweep
- Measure RSSI in true dBm with a calibrated receiver
- Multipath and RSSI; narrow band & total channel power
- Rechargeable Internal Li-Poly battery or A/C power
- MAC Security Authorization Lists/Detection/Alarms as well as WEP and WPA encryption detection
- Internal GPS receiver for realtime geo-coding of all measurements
- Optional Direction Finding antennae for locating rogue APs, WLAN hackers and spurious RF interference
- Optional RJ-45 Ethernet Port for fast, networked PC communication
- Optional Swarm™ mapping/validation coverage analysis software

Call us today for more information:
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Providing wireless solutions for over 35 years.
SPECTRUM ANALYSIS
Full spectrum sweep
Preset channel sweep
Variable Resolution Bandwidth
Set Reference Level
Channel Power
Screen Averaging
Video Smoothing
Marker/Delta Functions
Trigger
Multiple Traces
Spectrogram
Histogram
Persistence

PACKET DEMODULATION:
Survey sweep of channels for all APs
Individual channel analysis of APs or STAs
Absolute channel
W.I.S.P. antenna alignment
RSSI for each AP/STA in true dBm
Multipath in chips and nanoseconds
AP manufacturer’s ID

DEMODULATOR SPECIFICATIONS
BANDS SUPPORTED 2.4-2.5 GHz, 5-5.8 GHz (includes 802.11a, 802.11n and 802.11h)
RF SENSITIVITY (Wide Band) -20 to -90 dBm
PACKET PREAMBLE DEMODULATOR and ANALYZER Multipath Measurement and Graphical Display
CORRELATED POWER MEASUREMENTS
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 : -80 dBm

SPECTRUM ANALYZER SPECIFICATIONS
BANDS SUPPORTED 2.0 - 4.0 GHz & 4.9 - 5.9 GHz (includes 802.11a, 802.11n and 802.11h)
AVERAGE NOISE FLOOR (NO INPUT) < -100 dBm (reference level -70 dBm, resolution bandwidth = 50 kHz)
DYNAMIC RANGE > 40 dB
LEVEL ACCURACY ± 1.5 dB (25º C)
MAX INPUT (SAFE) + 0 dB
MAX INPUT (NO SATURATION) - 20 dB
REFERENCE LEVEL -20 to -70 dBm (10 dB steps)
DISPLAY (IPaq) see HX2700 specifications
OPERATING SYSTEM (IPaq) Windows® Mobile 5.0

TRIGGERING
USER CONTROL auto or manual
PACKET/INTERFERENCE TRIGGER trigger analyzer when input power ≥ threshold (20 MHz span)
TRIGGER THRESHOLD user settable in dBm
TRIGGER DELAY user settable in µS

GENERAL SPECIFICATIONS
INTERNAL GPS RECEIVER 12-channel GPS receiver
INPUT CONNECTOR SMA Female, 50 Ohm
POWER Li-PO, AC or DC
RUNTIME INTERNAL BATTERY > 3 hours
RECHARGE TIME < 3 hours

PHYSICAL SPECIFICATIONS
WEIGHT 3 lbs.
DIMENSIONS 3”H x 5”W x 9”L (water resistant, high impact ABS plastic case)

NETWORK SECURITY:
Authorize or Unauthorize MAC addresses
Generate valid AP list automatically
Upload AP list from PC
Flag invalid APs as “suspect”
Detects WEP encryption
Detects WPA encryption