

# Bumble Bee™-TABLET

**TABLET PC SPECTRUM ANALYZER**



**BumbleBee™-TABLET** is a Windows XP® tablet UMPC spectrum analyzer all-in-one system. The calibrated receiver measures a combo (SEE REVERSE SIDE FOR CHOICES) of popular wireless bands including Wi-Fi, Wi-MAX, ISM, Public Safety, Bluetooth and more. **BumbleBee™-TABLET's** interface offers a large 7" WVGA LCD touch-screen featuring 1GHz Intel Pentium® processor. In addition, the tablet UMPC has an internal 60GB HDD for instant storage and playback of all captured RF spectral network installation, coverage and interference analysis data in the field. Advanced spectrum analysis features include user selectable power

MODEL 2

2.4-2.5 GHz  
4.9-5.9 GHz

MODEL 1

902-928 MHz  
2.4-2.5 GHz  
5.1-5.9 GHz

triggers, 3 pairs of markers, spectrogram, histogram, video smoothing, waveform averaging, 1 live trace and up to 4 peak hold waveform traces with peak hold & peak search. **BumbleBee™-TABLET** takes the power of sophisticated laboratory spectrum analyzers and delivers it to installers in the field and engineers in the lab.

**7" WVGA TOUCH SCREEN**

**HANDHELD**

**ONLY 3 LBS.**

**BUMBLEBEE-TABLET FEATURES:**

- RF SPECTRUM ANALYSIS IN YOUR HANDS OR ON YOUR DESKTOP**
- IDENTIFY WI-MAX, RFID, WI-FI, 802.11 & OTHER ISM INTERFERENCE**
- LARGE, 7" WVGA, TOUCH-SCREEN INTERFACE**
- WINDOWS XP UMPC INTEL PENTIUM TABLET**
- 60 GB INTERNAL HDD STORAGE**
- CHANNEL POWER MEASUREMENTS IN dBm**
- PEAK SEARCH / HOLD WITH UP TO 4 PEAK HOLD WAVEFORM TRACES**
- USER SELECTABLE POWER TRIGGERS**
- SPECTROGRAM / HISTOGRAM MEASUREMENTS**
- WAVEFORM JPEG SNAPSHOTS WITH PREVIEW & PRINTOUT**
- HONEYCOMB™ INTERFERENCE MAPPING SOFTWARE SUPPORT**

Optional Honeycomb™ Interference Mapping Windows XP® software can be run right on BumbleBee™-TABLET hardware while still in the field or later as a desktop application.

**HONEYCOMB™**  
Interference Mapping Software

**DESKTOP CONFIGURATION**

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



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## Frequency Support:

BumbleBee TABLET Model 1: (P/N 0092-T-K0Y)

BumbleBee TABLET Model 2: (P/N 0092-T-Z0Y)

902.40-928.00 MHz (ISM)  
2.4-2.5 GHz (ISM)  
5.150-5.900 GHz (UNII)

2.4-2.5 GHz (ISM)  
4.9-5.9 GHz (Public Safety-(UNII))

## BumbleBee Receiver Specifications

**Span:** 1 MHz (750 MHz for Model 1) (1 GHz for Model 2)  
**Resolution bandwidth:** 50 kHz – 1 MHz (50, 100, 300, 500, 1 MHz)  
**Channel Presets** 802.11A/B/G/ZigBee/UNII Bands  
**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, Resolution BW=50 kHz)  
**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)

**Waveform Displays/GUI:**  
**Number of traces:** 1 live + 4 peak hold with ability to freeze up to 4 instances of peak & live traces  
**Trace settings:** Peak hold, screen average, freeze trace (live/peak/average)  
**Marker functions:** Up to 3 pairs of delta markers  
**Picture-In-Picture:** Mini-view to simultaneously view live & average

**Triggering:**  
**Auto or Manual:** Trigger the receiver & make measurements of live & peak traces when input power meets or exceeds trigger threshold (20 MHz span)  
**Trigger threshold:** user settable in dBm.  
**Trigger delay:** user settable in nanoseconds

**Input Connector:** SMA Female, 50Ω

**Power:**  
**Internal battery:** (4 AA Ni-MH), AC or DC  
**Run time (internal battery):** > 3 hours  
**Re-charge time:** < 1 hour

**Physical Specifications:**  
**Weight:** 1 lb.  
**Dimensions:** 4"H x 3"W x 6"L

## Tablet Specifications

**Manufacturer:** Samsung (Q1)  
**CPU:** Intel Pentium M ULV 723 1GHz (specify requirements when ordering)  
**LCD:** 7" WVGA  
**Operating System:** Windows XP UMPC Tablet Edition  
**VRAM:** Shared  
**Memory:** 1GB DDR 400  
**HDD:** 60GB (4200 RPM)  
**ODD:** None  
**Wired:** 100MB LAN  
**Built-In Wireless:** 802.11g+BT

**Physical Specifications:**  
**Weight:** 1.7 lb.  
**Dimensions:** 1"H x 5"W x 9"L