

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.

SPECTRUM ANALYZER

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
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www.bvsystems.com

BERKELEY VARITRONICS SYSTEMS®
Clarifying RF
Providing wireless solutions for over 35 years.

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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: 320 msec (100 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