

BumbleBee-LX™

HANDHELD - LIGHTWEIGHT - RUGGEDIZED SPECTRUM ANALYZER

700-2000 MHZ

**ONLY
3 LBS.**



•PCS
•CELLULAR
•PUBLIC SAFETY
•SMR
•RFID

BumbleBee-LX™ is a rugged, handheld spectrum analyzer all-in-one system. The calibrated receiver measures popular wireless standards such as RFID, Cellular, PCS, Public Safety Band, SMR and even cordless phones that reside in frequencies 700-2000 MHz.

BumbleBee-LX™ allows users to scan, display and record multiple RF waveforms for network installation, coverage and interference analysis. The color, touch-screen allows field engineers to tap on points of interest in any waveform and then drill down for further analysis. Advanced spectrum analysis features include multiple waveforms with peak hold / search, user selectable packet / interference triggers, spectrogram and histogram. **BumbleBee-LX™** allows for realtime spectral analysis of many wireless standards as well as unidentified RF interference.

BUMBLEBEE-LX FEATURES:

- ✓ 700-2000 MHz SPECTRUM ANALYSIS
- ✓ RFID, CELLULAR, PCS, SMR, PUBLIC SAFETY BANDS
- ✓ COLOR, TOUCH-SCREEN INTERFACE
- ✓ 3 WAVEFORM TRACES
- ✓ PEAK HOLD / SEARCH
- ✓ PACKET / INTERFERENCE TRIGGERS
- ✓ WAVEFORM JPEG SNAPSHOTS
- ✓ OPTIONAL INTERFERENCE MAPPING SOFTWARE



BumbleBee-LX is a rugged, water-resistant spectrum analyzer that fits in the palm of your hand.

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**BERKELEY
VARITRONICS
SYSTEMS®**

Clarifying RF
Providing wireless solutions for over 35 years.

Bumble Bee™-LX

HANDHELD RUGGEDIZED SPECTRUM ANALYZER

Frequency:

Standards: Cellular
PCS
Public Safety Band
SMR
RFID

Span:

50 kHz to 800 MHz
Resolution bandwidth: 50 kHz – 1 MHz (50, 100, 300, 500, 1 MHz)

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)
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)

Display/Operating System/Memory:

Number of traces: 3 colors
Trace settings: Peak hold, screen average
Marker functions: Peak search, center frequency, left, right, delta
Screen shots saved to .jpg file
Display (iPAQ): see HP2700 specifications
Operating system (iPAQ): Windows® Mobile 5.0

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.

Input Connector: SMA Female, 50 Ω

Power:

Internal battery: (Li-PO), AC or DC
Run time (internal battery): > 3 hours
Re-charge time: < 1 hour

Physical Specifications:

Weight: 3 lbs.
Dimensions: 6"H x 4"W x 6"L



Optional 900 MHz



Optional 30 dB Attenuator



Optional 12V Power Inverter



Optional Logging Software



RF Analysis Software