

WBR-2000 Wideband ESM System



Date Revised: 29 JAN 04

VENDOR DESCRIPTION

WBR-2000 Performance at a Glance

- Wideband instantaneous coverage, <1 second response time
- Parametrically describes all conventional signal types
- Robust performance in ultra-severe EW environments
- Robust master threat library – 15,000 emitter modes
- Fully re-programmable scratchpad libraries allow:
 - Pre-configuring for specific missions (extracted from master)
 - Development during missions (from system IDs)
- Automated visual and aural threat alarms
 - No operator interaction required



Interferometer
0.5° RMS



Spinning
1.5° RMS



Phase
3° RMS

System Maturity Through Field Deployment and Testing

Product Manager Robotic & Unmanned Sensors

Telephone: (732) 427-5827 / DSN 987

Fax: (732) 427-5072 / DSN 987

e-mail: SFAE-IEWS-NV-RUS@iew.s.monmouth.army.mil



Business Category: Small Business

SIGINT

Hardware and Software Configuration

Antenna Assembly:	Inboard Processor:
Dimensions: 30 cm x 33 cm diameter (Radome)	Dimensions: 55 cm x 48 cm x 27 cm (standard 6U)
Weight: 9 kg	Weight: 32 kg
Power: 70 watts	Power: 350 watts
Operator Display:	Open architecture (various operating systems supported)
Dimensions: 40 cm x 41.5 cm x 27 cm	Standard data formats and interfaces
Weight: 14 kg	Full Built-In-Test
Power: 70 watts	

Performance

Deinterleaves and Displays:	TOA Accuracy: 10 ns
CW and Pseudo-CW: >120 usec pulse width	PRI Range: 500 ns to 33 ms
PCM, Stagger: Up to 16 positions	Minimum Pulse Width: 50 ns
Jitter, Discreet Jitter: 15% maximum	
Agile (Hoppers): RF deviation 500 MHz	Instantaneous Frequency Measurement (IFM) design approach
Chirp (FMOP): 1 GHz per microsecond	Intuitive operator displays assist in LPI detection
Frequency Range: 2-18 GHZ (.5 to 40 GHZ optional)	Acquires 25 new emitters per second per channel
Sensitivity: -65 dBm	Updates 100 tracks per second per channel
DF Accuracy: 7° RMS (0.5°, 1.5°, & 3.0° RMS optional)	Tracks 500 emitters simultaneously
Dynamic Range: 60 dB	Configurable for remote operation
Probability of Intercept: 100%	Multiple site networking for improved geolocation