

WBR-3000 ESM/ELINT System

The **WBR-3000** combines the **High Probability of Intercept (HPI)** Performance of an IFM with the search and analysis capability of a narrow band ELINT subsystem.

WBR-3000 System is a modular, open architecture design using state-of-the-art technology.

Sophistication and expansion to meet today's needs, upgrade paths to fulfill the needs of the future.



ISO 9001: 2000

WBR-3000 ESM / ELINT System

Wide Band ESM (WBR-2000)

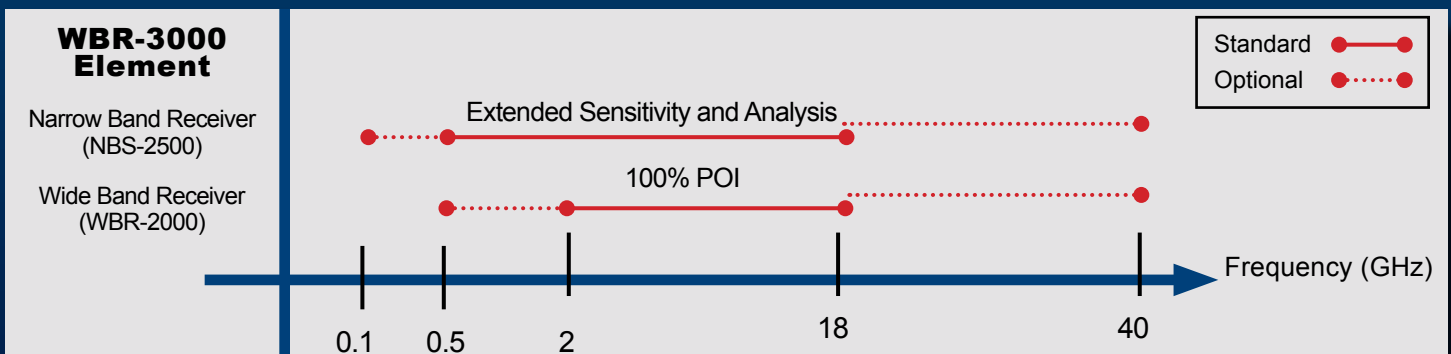
- 100% Probability of Intercept
- Fast and Accurate Description of the Electronic Environment
- Library Matches for Threat Assessment
- Queuing Resource for External Equipment



Narrow Band ELINT (NBS-2500)

- High Sensitivity Searches
- Spectrum Displays
- Set-on Analysis, Recording, and Audio Functions

Receiver Subsystem Frequency Coverage and Extension Options



Full Spectrum Coverage with State-of-the-Art Performance

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WBR-3000 ESM/ELINT System

Available Antenna Configurations

- Amplitude Monopulse:
–7 Degrees rms–Uncalibrated
- Amplitude / Phase:
–3 degrees rms–Calibrated
- Spinning Reflector:
–2 Degree rms–Uncalibrated
- Linear Interferometer:
–2 Degrees rms–Calibrated

Interferometer



Spinner



Amplitude



ESM Wide Band Receiver

- 2 – 18 GHz Frequency coverage with options down to 0.5 GHz and up to 40 GHz
- Instantaneous frequency measurement (IFM) technology
- Ultra-wide RF bandwidth
- 100% probability of intercept
- Processes in excess of 3 million interleaved pulses per second
- Quick response time (<1 second)
- Detailed Emitter Descriptions
- Robust Threat Library Capability
- Automatic Alarms and Operator Notifications
- Excellent Cross-queuing Device for the ELINT Subsystem



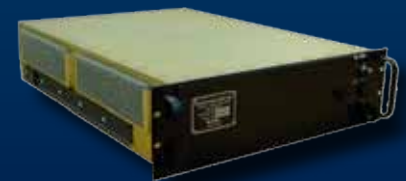
ELINT Narrow Band Receiver

- .5 to 18 GHz coverage with options down to .1 and up to 40 GHz
- Provides RF to IF conversion gain with low noise figure
- Provides simultaneous 160 MHz (80 MHz BW) & 1 GHz (500 MHz BW) IF outputs
- All signals are phase locked to a precision internal or external reference



ELINT Pulse Analyzer

- Scalable in both bandwidths and number of receiver channels
- Detects, identifies, locates, and records pulses or CW radar emitters
- Processes IF at 160 MHz and 1 GHz
- Provides up to 500 MHz instantaneous processing bandwidth for analysis of frequency agile signals
- Provides high accuracy, high resolution measurements of emitter frequency, pulse width, amplitude and time of intercept
- Performs intrapulse measurements for amplitude, frequency, and phase modulation analysis
- Large pulse storage buffers for detailed analysis of complex PRIs
- Storage buffers can be saved and recalled from hard disk
- Used for manual or automatic signal detection and analysis



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