



WBR-3001 ESM / ELINT SYSTEM

General Description

The WBR-3001 combines the High Probability of Intercept (HPI) Performance of an IFM with the search and analysis capability of a narrow band digital ELINT subsystem.

WBR-3001 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.



WBR-3001 ESM / ELINT System

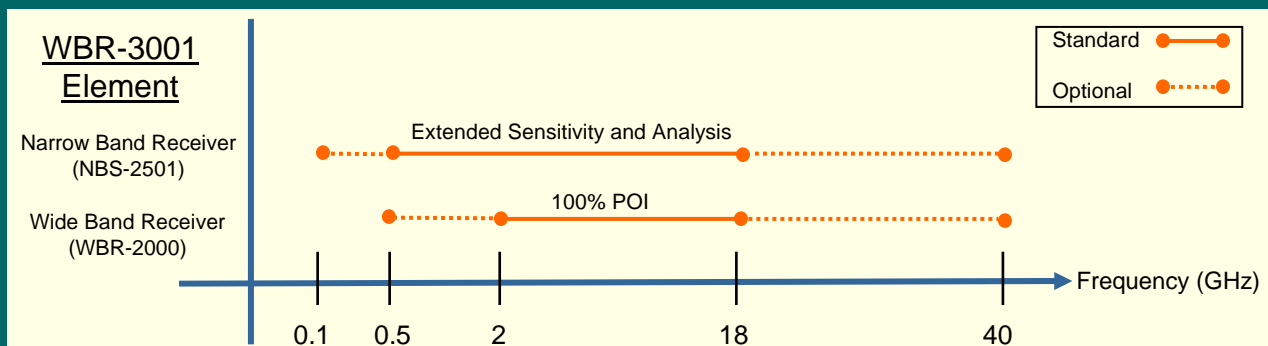
Wide Band ESM (WBR-2000)

- ✓ 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-2501)

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



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

The products on this data sheet are subject to the controls of the International Traffic in Arms Regulations (ITAR) and will require authorizations prior to export out of the U.S. or transfer to any foreign person.



ISO 9001:2000

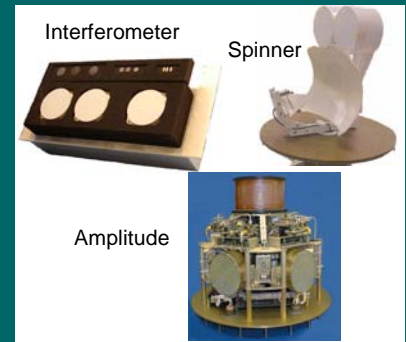
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WBR-3001 ESM / ELINT SYSTEM

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



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



Creative People Applying Advanced Technology

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