

DUAL-BAND RECEIVER SYSTEM

(DBRS Model 3000.2)

A receiver system for use in monitoring radio frequency transmissions and protecting sensitive areas such as conference rooms and SCIF's, ENSCO's DBRS Model 3000.2 detects unauthorized radio transmissions and alarms in the presence of signals that may present a security risk to the area of interest.

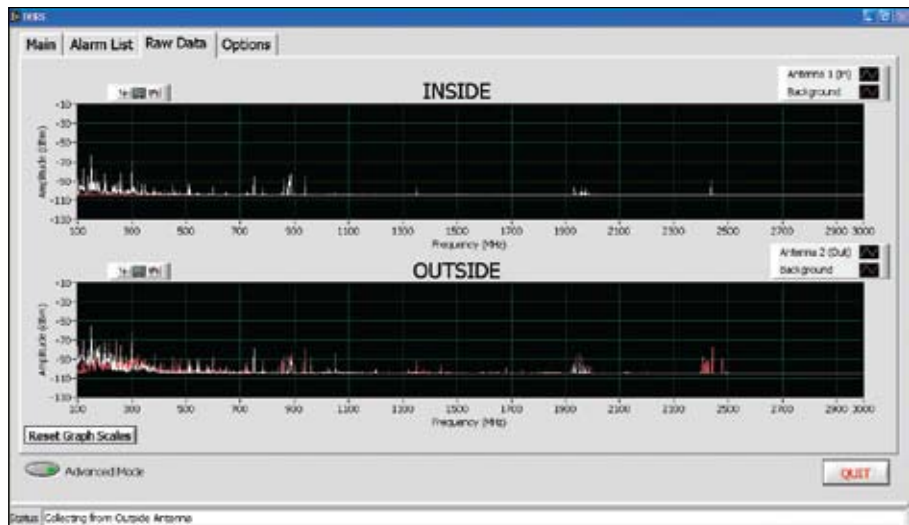
Recently designed by ENSCO scientists using the latest technology, ENSCO's DBRS is the only system of its kind equipped with a detection algorithm smart enough to alarm only when it is supposed to and avoids flooding the operator with false alarms.

Portable and easily adaptable, the DBRS 3000.2 is a flexible solution, which meets protection needs across a wide variety of configurations and operational scenarios.

System Description

Equipped with a high-speed receiver system, the DBRS 3000.2 uses a micro miniature Nanoceptor receiver with its fine frequency tuning resolution and a wide dynamic range. A single channel receiver is integrated with an RF switch and PDA to sample sequentially both the inside and outside antenna at each frequency. For example, a user can sample from 100 MHz to 3000 MHz in 1 MHz steps and cover this range with both antennas in 46 seconds.

The software consists of graphs showing the inside and outside power spectrums as well as the difference between them. The system dynamically alarms on either the detection of large external signals or on specific leakage between the inside and outside antennas. The DBRS system also supports a single frequency (sniffing) mode to isolate individual frequency leakage.



Specifications

Frequency Range:	100 to 3000 MHz (nominal)	Rcvr. Phase Noise:	-110 dBc/Hz @ 100 kHz offset
Frequency Step Size:	Variable* (1 MHz typical)	Rcvr. Dynamic Range:	-110dBm @ 10kHz Bandwidth
Resolution Bandwidth:	Variable* (30 kHz typical)	Operating Temp Range:	-20° to +60° C
Frequency Step Speed:	8 ms (max)	Power:	12 Vdc @ 6 watts
		Total Weight:	3 lbs. (approx.)

*System is preloaded with DBRS 1.0 software, providing capability for user to customize scan parameters.

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