

Introducing OSCOR (Omni Spectral Correlator), the most technologically advanced countersurveillance detection system on the market today. When sensitive information is critical to your success, OSCOR is the only product that provides an automatic, reliable, and cost effective means of protecting your business environment 24 hours a day without the need of hiring outside help. OSCOR is designed to detect all major types of audio and video RF transmitters including carrier current and infrared.



*One year
written
warranty*

OSCOR ADVANTAGES

Portable and Programmable

complete package of test equipment that continuously scans all bands and silently detects eavesdropping equipment.

High Sensitivity Digital Synthesized Receiver

scans Radio Frequency (10kHz-3GHz), including audio and Infrared (850-1070nm).

Audio Analyze Mode

demodulates a received signal to audio, and provides RF signal lock to support correlation.

Acoustic Correlator

utilizes passive sound pattern matching to automatically detect a listening device.

Strip Chart Plotter

provides "hard copy" of spectrum profiles of data for future comparisons.

Optional Features

Video demodulator with LCD monitor(s) available in NTSC, PAL, and SECAM standards; microcassette recorder for audio sampling of suspicious signals.

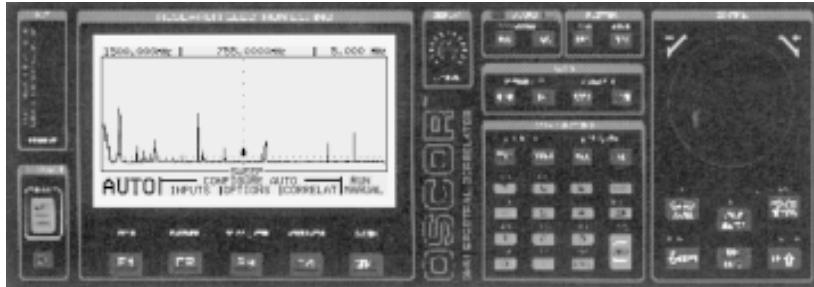
OSCOR increases security and saves money!

- Puts cost effective professional sweep capability at your disposal.*
- Monitors around the clock in an unattended automatic mode.*
- Increases security with unannounced sweeps at your discretion.*

Automatic Operation allows OSCOR to perform its duties in the same manner as highly trained sweep team technicians, except much faster, and 24 hours per day.

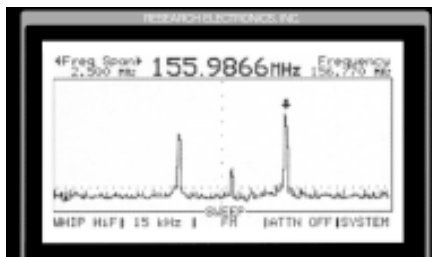
Sensitive, Fast, Accurate...

The synthesized receiver rapidly acquires new signals with features like: seek to next signal, auto tune, auto squelch and a full compliment of IF bandwidths and demodulators including subcarrier. For precise, accurate frequency settings, the variable rate optical encoder allows fast moves across the spectrum with rapid rotation. Specialized controls allow you to adjust the displayed frequency span, select input source, IF bandwidth, demodulator, and attenuator. A desired frequency may also be entered directly from the keypad.



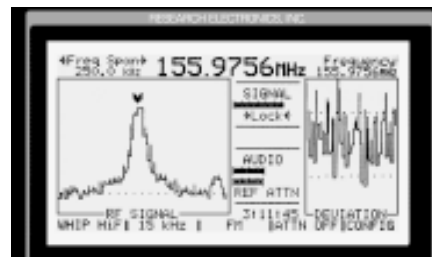
Sweep Mode

Swept Spectrum Analysis profiles indicate frequency and levels of each signal. Suspicious signals are easily identified.



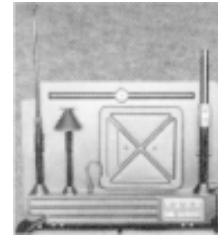
Demodulated close-up

Pressing the Sweep/Analyze button activates the selected demodulator for more complete detailed audio analysis.



Captures the weakest signals...

The active antenna array captures the weakest signals with its four elements, each selected by control of the computer as needed. Specialized antennas include a VLF magnetic loop for switched narrow tape recorder "bias" detection, a 360° infrared detector, a high frequency discone antenna, and a broadband active whip antenna.

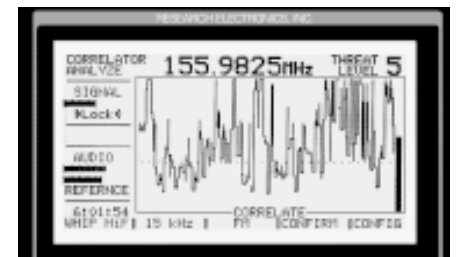


Silent Passive Correlation...

REFERENCE audio is provided by the built in microphone as it listens to the passive sounds within the target area (talking or background music). The correlator compares each received signal with the audio reference to determine Threat



In the Auto Mode, a silent display alert or audible phone ringer can be selected. External Reference inputs (CD/tape, microphone, etc.) can be used.



Specifications (OSCOR™ is a registered trademark of REI and is protected under U.S. patents.)

RF System:

RF Receiver Type: quad super heterodyne with 3 PLL synthesizers
 RF Frequency Coverage: 10kHz-3000MHz
 Tuning Resolution: 100Hz
 Sensitivity: -109dBm(0.8µV) typical with 15kHz bandwidth (+15dBm MAX)
 Demodulators: AM/FM Wide, AM/FM Narrow, FM SC, SSB/CW
 IF Bandwidth: 250kHz, 15kHz, 6kHz
 Attenuators: 0, -20dB
 Dynamic Range: 90dB
 Subcarrier Tuning Range: 10kHz-250kHz
 Antenna Types: balanced loop 10kHz-500kHz (35-45kHz narrow)
 Active Whip: 500kHz-1500MHz
 Discone: 1500MHz-3000MHz
 Infrared Detector: 10kHz-5MHz, 850-1070nm
 AC Carrier Current: 10kHz-5MHz (balanced across power line)

Control System:

Microcontroller: 8/16 Bit
 Memory: 128kB (512kB optional) battery backed static RAM
 Optical Encoder: 128 pulse/rev with variable count ratio
 Program Key: 64kB ROM
 Display: 128 x 256 segment graphics Supertwist LCD
 Printer: 192 dot per line graphics on 2in wide thermal paper

Audio System:

Frequency Response: 50Hz-15kHz
 Voiceband Filter: 300Hz-3000Hz, 18dB/octave
 AGC Dynamic Range: 60dB
 Output Power: 3W @ 4W
 Headphone Output: 0-2V rms @ 220W
 Record Output: 50mV rms (with AGC) @ 500W
 Remote Contact: normally open (200mA 32V MAX)
 Balanced Auxiliary Input: 0.5V rms nominal @ 600W
 Reference Audio Input: 1mV-1V rms @ 3.9kW
 Sonic Correlator: 50Hz-15kHz (frequency independent)
 Audio Alarm: 3 level programmable two tone ringer
 Squelch: automatic digital or manual control over full display range
 Headphones: low acoustic leakage, 16W output limited to 105dB SPL

Power System:

AC Input: 105-130/210-260VAC, 50-60Hz, 24W
 External DC Input: 12-18VDC, 1A max
 Internal Battery: 12.6V, 2.6Ah 3 hour operation per charge typical

Mechanical:

Size(HxWxD): 6.25 x 18.5 x 14.5in (47 x 36.8 x 15.9cm)
 Weight: 28lbs (12.7kg)

OSCOR provides the best mix of a Digital Spectrum Analyzer, Switched Antenna Array, Acoustic Correlator and Custom Software all in a compact portable carry-on package, saving Sweep Teams time, manpower and money.



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