COUNTER SURVEILLANCE

OSIC-5000

Introducing OSIC-5000, the most technologically advanced counter surveillance detection system on the market today. When sensitive information is critical to your success, OSIC-5000 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. OSIC-5000 is designed to detect all major types of audio and video RF transmitters including carrier current and infrared.

Features of OSIC-5000:

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).

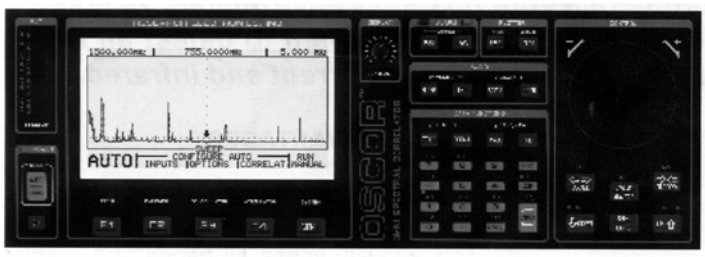
Audio Analyse Mode
Demodulates a received signal to audio, and provides RF signal lock to support correlation.

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.

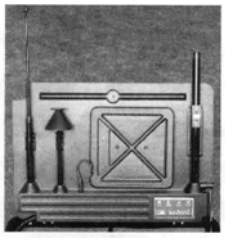
Optional Features:
Video demodulator with LCD monitor(s) that available in NTSC, PAL and SECAM standards, combined with micro cassette recorder for audio sampling of suspicious signals.

Sensitive, Fast and 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 sub carrier. For precise, accurate frequency settings, the variable rate



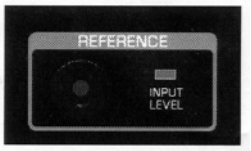
optical encoder allows fast moves across the spectrum with rapid rotation. Specialized controls allow you to adjust the displayed frequency span, select input source, IF bandwidth, demodulator, and attenuator. A desired frequency may also be entered directly from the keypad.

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 disc-cone antenna, and a broadband active whip antenna.

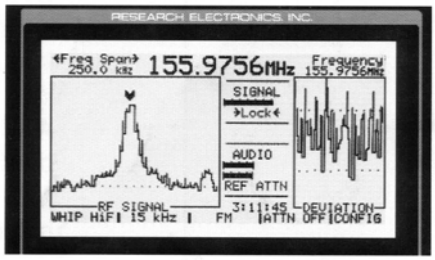
Silent Passive Correlation



The built in microphone provides reference audio 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 Level. 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.

Sweep Mode

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



Demodulated Close-up

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

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

Audio System

- Frequency Response: 50Hz-15kHz
- Voice band 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-I8VDC, 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)

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, and 6kHz
- Attenuators: 0, -20dB
- Dynamic Range: 90dB
- Sub carrier Tuning Range: 10kHz-250kHz
- Antenna Types: balanced loop 10kHz-500kHz (35-45kHz narrow)
- Active Whip: 500kHz-1500MHz
- Disc-cone: 1500MHz-3000MHz
- Infrared Detector: 10kHz-5MHz, 850-1070Nm
- AC Carrier Current: 10kHz-5MHz (balanced across power line)

Control System

- Micro controller: 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 Super twist LCD
- Printer: 192 dots per line graphics on 2in wide thermal paper

Counter Surveillance Probe/ Monitor - CPIM-700

Detect and locate all major types of electronic surveillance devices including room, phone, body bugs, video transmitters, and tape recorders.

Portable Sweep Kit – provides everything needed to perform a professional sweep; sweep kit fits inside a standard briefcase.

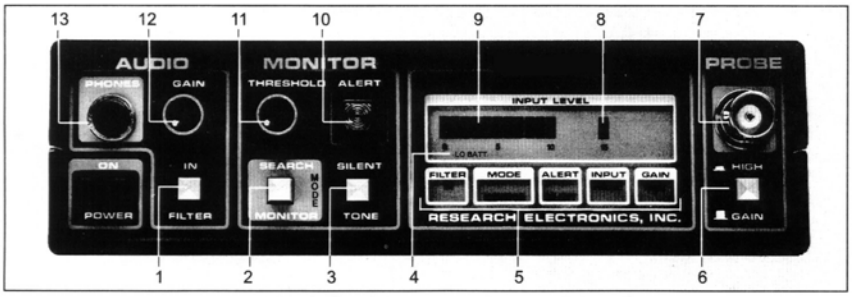
Multi-Functional Utility – comes with probes to detect RF transmitters (audio and video), carrier current transmitters, and telephone bugs. Probes are also available to detect infrared transmitters, tape recorders and acoustic leakage.

Wideband Coverage – full spectrum from 200Hz to over 3GHz including infrared.

Monitor Mode – after a sweep, the alarm monitor (silent or audible alert) guards against new devices brought in or remote control activation of surveillance devices.

Auxiliary Audio Input – allows user to listen to telephones or lines, hook switch bypass and "infinity" bugs. Unknown wires and cables can be tested for wired microphones.

1. FILTER: Audio filter used to accentuate voice frequencies and remove noise.
2. MODE: Sets the unit to Search or Monitor function. Search is for performing a sweep with the audio Automatic Gain Control engaged, the Monitor Mode sets the Alarm and Record output to detect an intrusion.
3. ALERT: Selects either audible Tone beeper or Silent flashing LED output from Monitor Mode.
4. LOW BATT: Voltage indicator, indicates approximately 10% remaining power.
5. STATUS DISPLAY: Shows unit operating conditions made by button selections.
6. GAIN: Adjusts the internal sensitivity of the Detector and Audio systems.
7. PROBE INPUT: Provides input and power for active probes and automatically selects the appropriate Probe or Aux detector circuits.
8. PULSING SEGMENT: Indicates alarm trip point in the Monitor Mode, activates Alarm & Remote output.
9. INPUT LEVEL: Bargraph indicates signal strength of Probe or Aux inputs.
10. ALERT LED.: Flashes Red when input level exceeds trip point of Monitor Mode.
11. THRESHOLD: Sets the trip point for the Monitor Mode.
12. GAIN: Controls the audio gain (volume) to the speaker or headphone output.
13. PHONES: Allow for silent headphone detection, disconnects the internal speaker.



CPIM-700 sweep kit and custom Cordura case contain all items necessary to conduct a complete professional sweep.

THE CPIM ADVANTAGE:

- **Cost effective professional sweeps at your disposal.**
- **Increased security with unannounced sweeps at your discretion.**
- **Superior product at an affordable price.**