Advanced Corporate Solutions
"Debugging" Specialists | Service Excellence since 1995

PROCEDURE AND EQUIPMENT

PROCEDURE

With an in-depth electronic search, Technical Surveillance Countermeasures (TSCM) tests are undertaken on wall panels and ceilings of the areas.

EQUIPMENT

We make use of state-of-the-art equipment, purposely built to perform specific tasks during our assessments. Our equipment register consists of the following:

OSCOR™
BLUE SPECTRUM ANALYSER

The OSCOR Blue Spectrum Analyzer is a portable spectrum analyser with a rapid sweep speed and functionality suited for detecting unknown, illegal, disruptive, and anomalous rogue transmissions across a wide frequency range. The OSCOR Blue is designed to detect illicit eavesdropping signals, perform site surveys for communication systems, conduct radio frequency or RF emissions analysis, and investigate misuse of the RF spectrum. It sweeps 10 kHz to 24 GHz or 10 kHz to 8 GHz (depending on the model) in one second to quickly detect transmitting electronic surveillance devices and ensure that spectrum activity is captured.

MESA - MOBILITY ENHANCED SPECTRUM ANALYSER

The MESA is a portable, handheld RF receiver that detects known, unknown, illegal, disruptive, or interfering transmissions. The MESA features unsurpassed mobility and ground-breaking features, not found in any other spectrum analyser. First in its class, the MESA is purpose built to locate unknown signals throughout a wide frequency range up to 6 GHz. It DETECTS: RF, Wi-Fi, Bluetooth, Cell phone signals and Illicit transmissions. (Eavesdropping “Bug” Detection).

A.N.D.R.E DELUXE - ADVANCED NEAR-FIELD DETECTION RECEIVER

The A.N.D.R.E Deluxe is a handheld broadband receiver that detects known, unknown, illegal, disruptive, or interfering transmissions. The ANDRE locates nearby RF, infrared, visible light, carrier current, and other types of transmitters and quickly and discretely identifies threats using its wide range of accessories specifically designed to receive transmissions across a 10 kHz to 6 GHz frequency range. Technical security specialists will appreciate the portability and responsiveness of the ANDRE. It is an excellent complement to an OSCOR Spectrum Analyzer/Raptor as a preliminary non-alerting tool.

RAPTOR RXI ULTRA-FAST-SCANNING COUNTER-SURVEILLANCE RECEIVER

The Raptor RXi is an ultra-fast-scanning counter-surveillance receiver for quickly detecting surveillance transmitters. The RXi scans from 10 kHz to 26GHz in under 4 seconds, detecting even the briefest pulsed transmissions.

Featuring a fast Core 2 Duo processor, its multiple software tools and demodulators detect frequency-hopping, burst mode and spread spectrum devices as well as analogue audio and video signals. The 'Waterfall' display mode gives an intuitive display of signals over time. The RXi is fully portable, operating either from an internal rechargeable battery or an external supply. Its integrated antenna system provides wideband performance from 10 kHz to 26GHz.

KESTREL TSCM® PROFESSIONAL SOFTWARE

Kestrel is a highly evolved TSCM specific, operator centric SDR application, with advanced capability to meet TSCM specific and evolving challenges of professional technical operators, working in the private sector, and within the national security apparatus, who are faced with a modern moving target threat model, in combating the growing threats of cyber-espionage. The Kestrel TSCM ® is not a simplistic desktop spectrum analyser, offering limited capability, but rather, it is a highly deployable, mission scalable, travel friendly full featured TSCM focused product.

TALAN 3.0 TELEPHONE AND LINE ANALYSER

The TALAN represents a state-of-the-art capability to detect and locate illicit wire taps on both digital and analogue telephone systems. It provides the capability to perform multiple tests to analyse communication lines for eavesdropping devices. It includes a built-in automatic switching matrix for testing all pair combinations. For example, if a cable has 8 conductors, there are 28 combinations of pairs to test and it can automatically switch through all combinations, performing test functions and storing data for comparison.

With new enhancements built into the TALAN software interface, users can now also test Internet Protocol (IP) packet traffic on Voice over Internet Protocol phones and systems. Data can be stored and exported to USB or Flash as data files for further analysis, sharing and reporting.

ORION™ 2.4 HX NON-LINEAR JUNCTION DETECTOR

The ORION 2.4 HX Non-Linear Junction Detector detects electronic semi-conductor components in walls, floors, ceilings, fixtures, furniture, containers, or other surfaces. The ORION is made to detect and locate hidden cameras, microphones, and other electronic devices regardless of whether the surveillance device is radiating, hard wired, or turned off. The ORION can locate small electronics such as SIM cards in walls, floors, ceilings, packaging, fixtures, furniture, or containers.

BLOODHOUND SHEARWATER 2000

(To test for hidden and live microphones on telephones and lines, please visit www.shearwatertscm.com)

Bloodhound is an Acoustically Stimulated Microphone Detector which is an electronic system for use by Technical Security Inspection Teams for detecting audio eavesdropping. The system works by detecting the radiated field created whenever a microphone detects sound. The Bloodhound operator can either listen to the detected audio or establish acoustic feedback. The Bloodhound is used to detect:

- Amplified wired microphone systems
- Telephone Attacks – Both base band and attacks using R.F. modulation techniques
- Radio Microphone Attacks and
- Video camera surveillance.

The Bloodhound system can also be used for:

- Cable tracing and
- Carrier Current device detection.

VIDEO POLE CAMERA

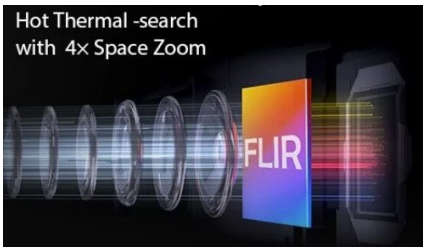
The camera provides white LED illumination for colour inspection in dark areas, such as drop ceilings, behind immovable objects, around corners, other difficult to reach areas and in dark situations.

SEEK SHOTPRO THERMAL IMAGING CAMERA

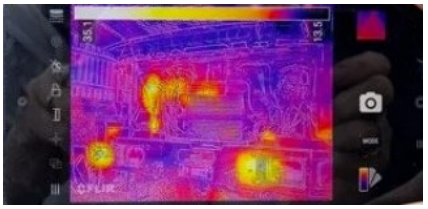
The Seek ShotPRO is the most advanced thermal imaging camera for professionals. Photos and videos are analysed immediately with new on-board thermography tools. Spot measurements and temperature boxes are created for time-saving reports. Problems are precisely diagnosed with 16x higher resolution.

BLACKVIEW RUGGED PHONE WITH FLIR® LEPTON® THERMAL IMAGING CAMERA

The Blackview BV8900 Rugged Phone with FLIR® LEPTON® Thermal Imaging Camera gives live thermal imaging expertise direct from a smartphone. This device uses FLIR (Forward Looking Infrared) to capture shareable clear thermal imagery, video, and even time-lapse footage. The thermal imaging technology is used in the field of Technical Surveillance Counter Measures (TSCM) Investigations to determine if there are any hidden electronic devices in a specific area.



Electronic devices have multiple methods of accessing power to function and this invariably leads to the emission of heat. The device can further be used to identify and locate rogue Wi-Fi access points in a target area.



PHYSICAL TESTS ON TELEPHONES AND LINES (IF APPLICABLE)

1. Tests are undertaken for the detection of both series and parallel devices, using the Bloodhound Shearwater 2000.
2. All telephone lines are reconnected and tested for correct operation.
3. Tests are undertaken on all telephone instruments to identify any modifications or hidden microphones.