



**Advanced Video & Audio
RF Detection System**
TSE 7517-2, ECM6

ADVANCED VIDEO & AUDIO RF DETECTION SYSTEM TSE 7517-02

SPECTRUM

The Advanced RF Far Field Component



This is a portable system for radio frequency surveillance analysis. As a Far Field Counter Measure it can monitor a large area of many rooms or can target one at a time. It is easily programmable, with results stored for repeated and future appraisal, with a full A4 report printout of text and graphical display in line or bar. A novice user with a modest background in radio scanning can have the unit operational in 30 minutes to produce a fully documented predetermined scan.

This is NOT to be confused with Near Field, one room at a time equipment.

This is a professional, highly disciplined spectrum analysis, with additional Spectrum Analyzer functions. It can readily identify clandestine transmissions including Spread Spectrum devices, and display video transmissions.

SYSTEM COMPONENTS

- The TSE 7517-02 Super Wide Band Active Antenna.
- The ECM6 receiver unit, now with extended frequency range to 6 GHz, and includes antenna switching and video analysis.
- ECM Windows software professionally designed for Electronic Counter Measures.
- HF super compact antenna
- VLF Mains/telephone line/cable interface
- Rugged transport case

OPERATING FEATURES

The Video Capture system allows the operator to establish the type of video transmission, AM, FM or inverted FM with switchable de-emphasis. The actual video image is displayed on the laptop, "picture in picture", and can be stored and replayed.

Mains monitoring, software controlled, allowing L - N, L - E, N - E and auxiliary earth monitoring.
Line monitoring for cable / telephone line.

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SOFTWARE FACILITIES INCLUDE:

- Full remote control of antenna switching, video interpretation and display.
- Task scheduler for automatic sequence and save of scans. This is ideal for an unattended monitoring exercise.
- In built data base for display of frequency band allocation.
- Routinely compares files for additions and omissions.
- Possible Threat Mode for continuous unattended operation, with alarm.
- Manual tune Mode.
- Spectrum Analyzer Mode.

SPECIFICATIONS

- Frequency Range 10 KHz to 6 GHz
- High Speed Scanning.
- Video interpretation and "picture in picture" display.
- Advanced mains and line / cable monitoring.
- A4 print out.
- "Possible Threat" warning features.
- Option for remote control.
- Vehicle installation option with covert antennas.

FURTHER SYSTEM DETAILS

There are three primary components: The Receiver, the Antenna, and the Software. The system is housed in a single, very rugged, transport case.

THE RECEIVER

This is an upgrade from the previous system, and can be seen, bottom left, of the picture overleaf. It has an extended frequency range to 6 GHz. In addition, video is displayed on the Laptop screen, and can be saved and replayed at a later date. There is the option of a second video monitor if required.

THE ANTENNA

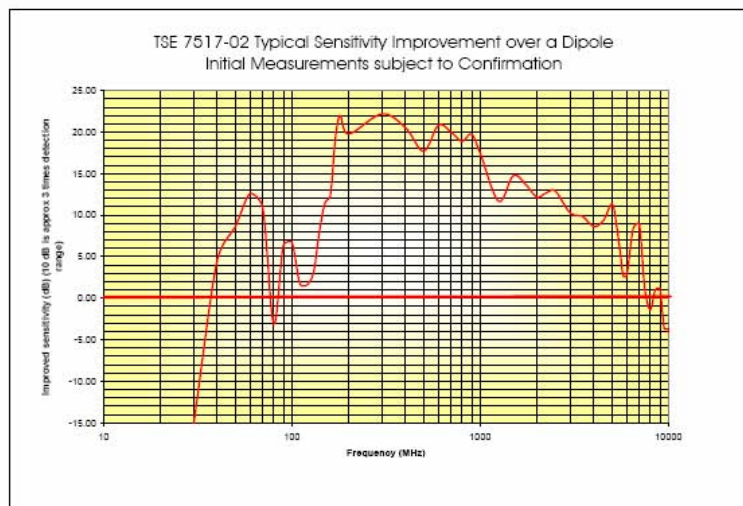
This is the TSE 7517-02, an active version of our long standing TSE 7517-01, and has an extremely wide frequency response, equating to a dipole from 25 MHz to 9 GHz. It has a beam width of 120 degrees, front and back, circularly polarized.

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THE SOFTWARE

The software is subject to ongoing development and now includes a Database to identify and display the type of transmission intercepted. Personalized notes can be added to the data. A Task Scheduler is provided to help group personally configured scans to be automatically run and saved.

Audio can be saved to the Laptop in the form of a "wav" file.





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