

Scanlock M2

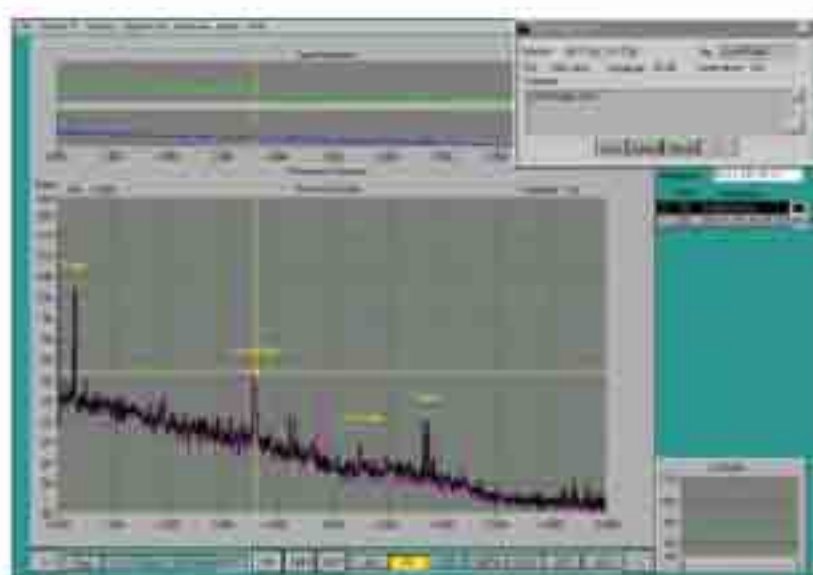
RADIO BUG DETECTION SYSTEM

FEATURES

- Rapid signal detection
- Identification of all signal types
- Device location
- Automatic tuning mode
- 3D spectral analysis for detection of digital devices
- Cable checking
- Rapid tuning - Scan rates under 5 seconds⁷
- Ultra wide coverage - DC to above 5GHz¹
- Sensitivity optimised to detect local low power devices even in high signal areas.

SOFTWARE FEATURES

- Signal logging - for room 'characterisation' speeding up subsequent sweeps
- Frequency measurement - real-time or 'post sweep'
- 3D spectral displays
- Spectrum tagging notes with automatic spectral information and the ability to record audio samples
- Differential display shows only changes in RF spectrum - real-time or between sweeps
- Remote Scanlock M2 control.



COUNTERSURVEILLANCE MADE EASY

The latest development in the Scanlock range from Audiotel International; Scanlock M2 makes the detection, identification and location of covert radio transmitters quicker and easier than ever before.

Speeding up RF detection - Scanlock M2 can scan the Radio spectrum in a fraction of the time taken by conventional countersurveillance receivers. Computer enhanced spectral analysis aids the identification of all types of active RF transmitter. Lighter and more portable, Scanlock M2 makes the detection and location of RF transmitters swift and silent. All cables, including mains and telephone, can be checked for current carrier or RF transmitters using the Scanlock M2's comprehensive range of accessories.

FASTER - 5GHz IN 5 SECS

Scanlock M2 scans the RF Spectrum effectively at phenomenal speeds; with fast automatic tuning even intermittent signals can be pinpointed. The entire process of signal evaluation can be carried out quickly and efficiently.

LIGHTER - EVEN MORE PORTABLE

Scanlock M2 is two thirds the weight of its predecessor; with simplified front panel controls, operation is quicker and more comfortable. A choice of our combination case with integral docking ports or new soft carrying case combines laptop and Scanlock for convenient and portable operation.

CLEARER - ANALYSIS MADE EASIER

New harmonic tuning technique (patent applied for) provides clearer and easier signal analysis.



SPECTRAL ANALYSIS SOFTWARE

COMPUTER CONTROL

Scanlock M2 Spectral Analysis software allows full control of the Scanlock M2 countersurveillance receiver directly from the computer display.

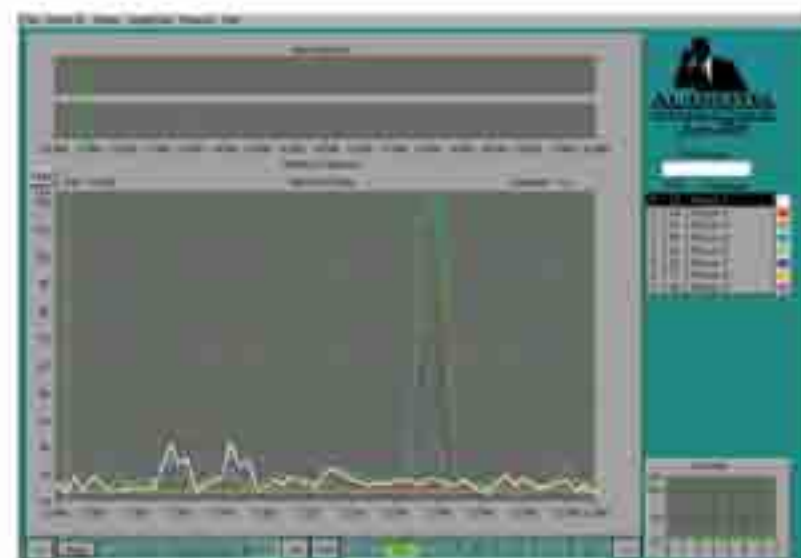
Suspicious signals identified on the computer display can be tagged with on-screen notes. The notes can be incorporated into reports or simply used as helpful reminders. Dragging the hairline cursor on the display automatically tunes Scanlock to the required signal. Sections of the RF spectrum can be displayed and resampled at different frequency resolutions. A range of audio demodulators can be applied and remote unattended scanning is possible should monitoring be required over long periods of time.

COMPUTER ENHANCED SPECTRAL ANALYSIS

The Scanlock M2 software allows logging, analysis, storage and comparison of all signals captured by the Scanlock M2. Using the visual display, suspicious signals can be quickly identified amongst the background noise of today's busy radio traffic for further investigation.

Intermittent signals can be easily identified using the various display modes available. 2D and 3D graphical display modes present the captured RF spectra in easy to read formats. Differential display modes can be used to blend out legitimate strong local radio transmitters.

These and other techniques give the countersurveillance operator a clear view of RF activity in any location.

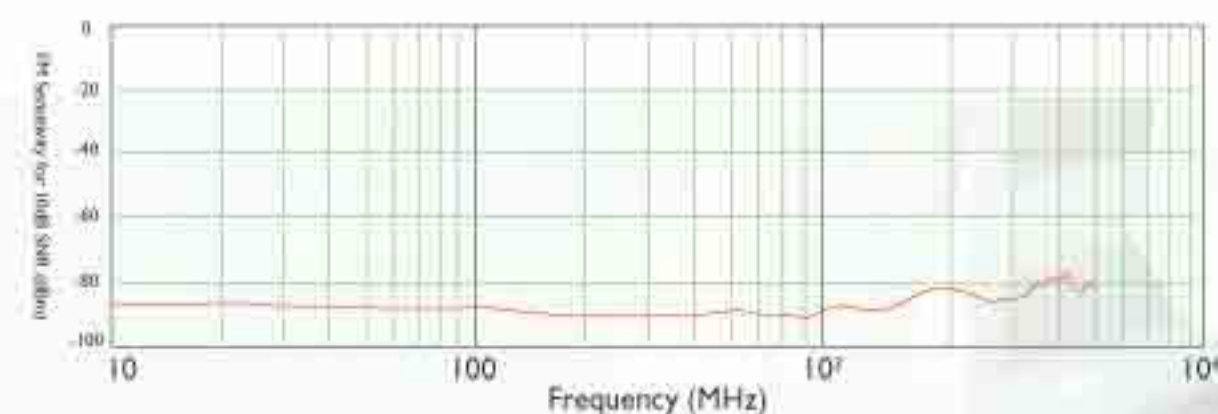


TECHNICAL SPECIFICATIONS

Frequency range	DC to above 5GHz ¹
Sensitivity	Better than -70dBm ²
Input 2 nd Order Intercept point	-2dBm ³ , +60dBm ⁴
Input 3 rd Order Intercept point	-13dBm ³ , +39dBm ⁴
Input 1dB compression point	-20dBm ⁴ , +10dBm ⁴
IF rejection	50dB ⁵ , 85dB ⁴
Image rejection	N/A
Spurious free dynamic range ⁵	74dB
Dynamic range ⁶	98dB
Size	312mm x 70mm x 252mm (width height depth)
Weight	4Kg
Battery Life	≈ 5 hours

Notes

- 1) Frequency response in two bands DC to 10MHz (CF) and 10MHz to 5GHz (RF).
- 2) Sensitivity defined as 10dB SNR for 1kHz tone measured in CCITT weighting filter, WBFM 50kHz pk-pk deviation, RF swept compression mode.
- 3) RF high gain receiver measured at 100MHz using set up given in 2).
- 4) RF low gain receiver measured at 100MHz using set up given in 2).
- 5) Overall second order spurious free dynamic range measured at 100MHz.
- 6) Overall dynamic range measured at 100MHz.
- 7) Scan rate for fixed compression scan, 10MHz to 5GHz at 100kHz resolution.



Typical Frequency Response



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