

Scanlock M3

Counter Surveillance System



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Scanlock M3

The latest development in the Scanlock range is the new Scanlock M3 Counter Surveillance Receiver. The Scanlock M3 represents a major advancement in radio bug detection combining wider frequency scanning coverage, faster scan rates, and a new colour touch screen user interface in a much smaller volume than the existing Scanlock M2.

Robustly designed and fully type approved, the Scanlock M3 range must be regarded as the most sophisticated counter surveillance system on the market today.

Performance enhancements

The Scanlock M3 has been designed with the following performance improvements;

Improved frequency range

(Advanced system)
The frequency range of the Scanlock M3 Advanced has now been increased to 10GHz (Basic System, 5GHz) which will cover the majority of radio eavesdropping threats.

Faster Scan rates

The scan rate of the Scanlock M3 has been reduced by a factor of 10 compared to the existing Scanlock M2 product. The system can now scan the entire RF spectrum (to 10GHz, Advanced System) in under 0.5s meaning that even the fastest burst type bugging transmitters will not be missed by the system.

Digital bug detection capabilities

(Advanced System)
The Scanlock M3 now has the capability to detect and identify a wide range of commonly found radio transmission signals. Formats that can be identified include; GSM, DECT, WiFi, Bluetooth, UMTS and video. This feature is particularly useful in the modern office environment where a multitude of common telecommunication signals may be present.

Integrated difference scanning

The Scanlock M3 now includes, as standard, an integrated difference scanning mode.

Reduce sweep times

This mode can be used to ignore friendly background radio signals and allow the operator to concentrate on signals which are local to area being checked. This feature will greatly reduce the time taken to sweep an area for radio bugging devices.

Improved antenna (Advanced System)

Wider bandwidth

The new antenna unit has been designed to offer superior performance over the entire 10GHz range of the Scanlock M3 unit.

Dedicated detector channels

Embedded within the antenna unit are a number of filtered detector channels which increase system performance within the crowded telecommunication bands.

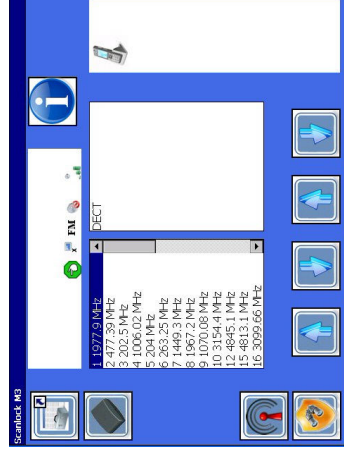
Colour User Interface

User friendly interface

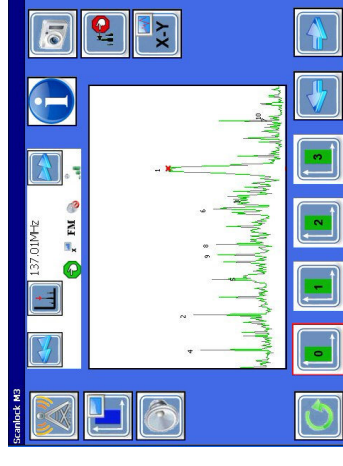
The Scanlock M3 has been designed for all levels of operator ranging from simple displays to more technically complex spectrum and time domain displays.

Muti-lingual help facility

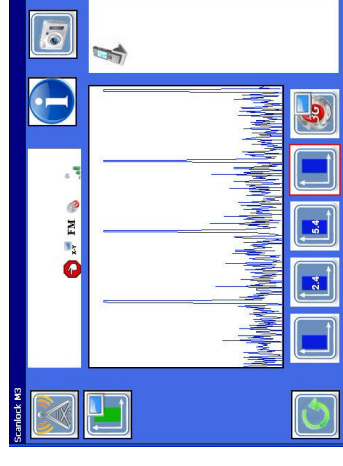
The user interface is icon based but includes a built-in multi-lingual help facility to explain the functionality of the unit.



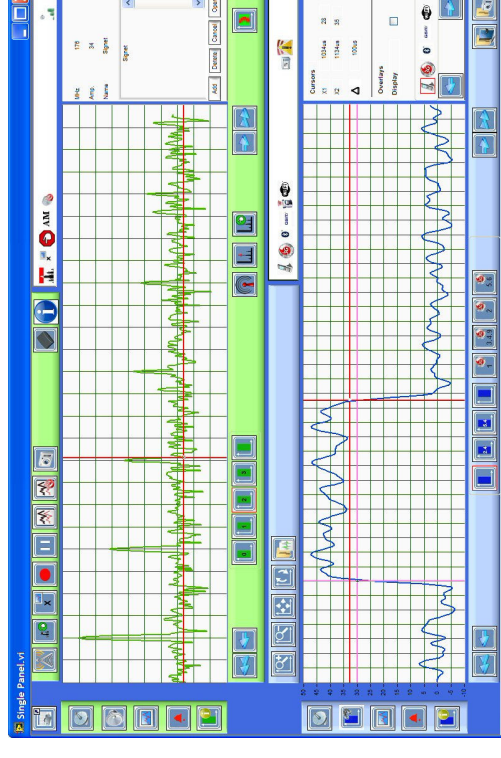
Scanlock M3 unit screen shot: Main screen showing signals automatically captured in the search area



Scanlock M3 unit screen shot: Harmonic spectral display showing captured signals in real time



Scanlock M3 unit screen shot: Burst display (Advanced only) showing DECT signal in real time



PC Screen shot showing Analysis Software with real time data

Analysis software (Advanced System)

The Advanced system is supplied with PC analysis software which allows the user to remotely connect a PC / Laptop to the Scanlock M3 unit via ethernet.

The software package will allow the operator full remote control of the Scanlock M3 unit and allow multiple high resolution scans to be viewed and analysed in real time.

The Advanced analysis software will also allow scan data to be stored and annotated for later comparisons or inclusion in sweep reports.

Connectivity

The Scanlock M3 is supplied with all the connectivity functionality expected from modern counter measures equipment.

Ethernet / Internet (Advanced System)

The unit includes an ethernet port for use with the Scanlock M3 advanced software analysis package, this interface can also allow the Scanlock M3 unit to be operated remotely via any standard IP connection.

USB

The Scanlock M3 also includes a USB port which will be used for software upgrades ensuring the system is 'future proofed' against new bugging threats.

Technical Specifications

Harmonic Receiver

Frequency range:	Near DC to 10GHz in 4 bands
	(Basic & Advanced System) Band 0: 12.8MHz to 2500MHz Band 1: 2500MHz to 5000MHz
	(Advanced System only) Band 2: 5000MHz to 7500MHz Band 3: 7500MHz to 10000MHz

Sensitivity :	Better than -50dBm
Dynamic range:	Better than 50dB

Broadband Detector

Frequency range:	(Advanced System only) 10MHz to 10GHz
Sensitivity:	Better than -50dBm
Dynamic range:	Better than 50dB

ISM Band Detectors

Frequency range:	(Advanced System only) 2.4GHz & 5.8GHz bands
Sensitivity:	Better than -50dBm
Dynamic range:	Better than 50dB

3G, GSM Detectors

Frequency range:	(Advanced System only) Various worldwide bands
Sensitivity :	Better than -50dBm
Dynamic range:	Better than 50dB

Man machine interface

Display:	TFT 640 x 480 VGA LCD
Screen update:	2 x per second in surveillance mode 5 x per second in locate mode

General

Main Size (w x d x h):	270mm x 170mm x 80mm
Main unit weight:	2.1kg
Antenna size (w x d x h)	260mm x 165mm x 60mm
Antenna weight:	0.9kg
Environmental:	Operating temperature +5degC to +35degC, benign office environment

Connectivity:

(Basic System)
USB for software upgrades

(Advanced System only)
USB for software upgrades
RJ45, Ethernet interface

Battery life

Battery operation:	Basic unit minimum of 4 hours on internal battery
External PSU:	12v DC @ 4A, reverse polarity, overvoltage and over current protected.

Approvals

EU:	EN300 440.1, EN301 489-3
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Options

Basic (near DC to 5GHz)
Scanlock M3 unit, telescopic antenna and accessories

Advanced (near DC to 10GHz)
Scanlock M3 unit with dedicated broadband burst detectors and network connectivity enabled, telescopic antenna unit, wideband antenna unit, accessories and Scanlock M3 Analysis software

Training

Audiotel International offers comprehensive training courses for all levels of TSCM knowledge. As well as providing comprehensive product training, Audiotel International also offers a number of general countermeasures training courses and seminars. The courses present an overview of technical surveillance techniques currently available, examples of countermeasure procedures and general security advice to help formulate TSCM security plans. Our Headquarters in Corby, United Kingdom are equipped with specialist training facilities that contains a number of classrooms and target rooms providing invaluable experience in detecting, identifying and locating listening devices. Bespoke and off-site training is also available.

After Sales Support

All Audiotel products are supplied with a comprehensive 2 year warranty, subject to our terms and conditions. Our trained technical staff are always on hand to provide advice and support in the use of all our products.