

CAM-105w

Cellular Activity
Monitor -
2G/3G/4G
Wifi/Bluetooth



FEATURES

- Detects GSM (2G), UMTS (3G), 4G (LTE) - plus Wifi/Bluetooth/2.4 Ghz devices
- Detects Mobile Phones, Smartphones, GPS Trackers, SMS (Texts), GSM Bugs, 3G/4G Video, Bluetooth & Wifi Devices
- Detects Cellular Bands 800 MHz (4G), 900 MHz (2G), 1800 MHz (2G/4G), 2100 MHz (3G), 2600MHz (4G)
- Separate 2400 Mhz band detector for Wifi/Bluetooth/Video and other latest generation devices
- Ultra-sensitive - Detects signals from up to 50 metres
- Event Log records Time/Date, Detected Band, Duration & Signal Strength of up to 4000 Events
- Log can be viewed on screen and downloaded to USB stick for storage/viewing on a computer
- Graph Mode plots real time or historical graph of all detected cellular bands
- 3.5 inch Colour TFT Display with easy to use menu driven operation.
- Audible Signal Strength 'Beep' and Silent Vibrate Mode.
- Machined Aluminium Enclosure for maximum durability
- Internal Lithium Polymer battery pack – Charger supplied
- Supplied in Heavy Duty Military Standard Carry case

The **CAM-105w Cellular Activity Monitor** is a handheld multiband cellular signal detector ready for the latest generation of 4G devices (as well as existing 2G and 3G), plus Wifi/Bluetooth devices.

The CAM-105w is designed to detect and locate transmissions from cellular mobile phone based devices including mobile phones, PDAs and smartphones, vehicle trackers, GSM listening devices (bugs) and covert wireless 3G/4G cameras. It can be used in sensitive meeting rooms to check for hidden devices, unauthorised mobile phone usage in offices, exam halls, hospitals or prisons and in vehicles to locate hidden tracking devices. The CAM-105w also has a separate 2400 Mhz band detector for the rapidly growing threat from Wifi/Bluetooth/Video devices.

It offers unprecedented levels of detection in a handheld unit and logs all cellular activity within range. The CAM-105w will detect signals from existing 900 MHz (2G), 1800 MHz (2G/4G), 2100 MHz (3G), plus the new 4G Cellular bands 800 MHz (4G LTE) and 2600 MHz (4G LTE). Multiple high gain amplifiers ensure detection up to 50 meters depending on signal strength and ambient conditions.



A simple, intuitive menu driven system displayed on a colour TFT screen allows the user to perform real time detection or to view events that have previously occurred. Each band has an individual 20 element signal strength meter enabling the precise source of a detected signal to be located with ease. An audible 'Beep' mode allows the user to monitor without looking at the display and a silent vibrate mode can also be used for particularly sensitive areas.

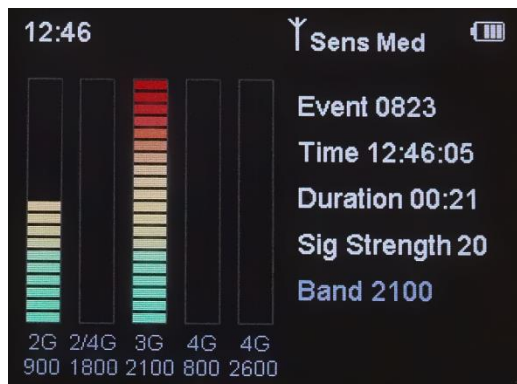
Up to 4000 cellular events can be stored within the CAM-105w for viewing as list or graphically. For each detected signal (no matter how long or short) it will record the Time/Date, Duration, Band detected and Signal strength. This can be particularly useful in identifying the type of device that is being detected. For example: a string of regular short bursts in one particular band may represent those from a GSM/GPS Tracking device. These could be clearly viewed in Graph Mode as lines of regular spacing representing the pulsing nature of the transmission. Also by looking at call activity at certain times of the day may help identify unauthorised phone use in sensitive areas such as prisons, company board rooms, exam halls, etc. The entire event log can also be downloaded to a USB stick for

storage or transfer to a computer where it can be viewed/sorted for analysis or reporting.

The CAM-105 also features an additional separate 2.4GHz Wireless real time/log detection mode. This is designed for detection of the threat from a new generation of wireless devices which use this band such as Bluetooth and Wifi devices. Such devices can for example, record audio over long periods and then transmit it in short regular bursts. It will also detect other devices that use this band such as wireless video. Complex algorithms analyse the detected signal to help identify the signal type. ie. Bluetooth, Wifi, or other 2.4Ghz signal. The 2.4Ghz Wireless detection mode stores the last 24 hours of activity which can be viewed graphically for later analysis.

The CAM-105w is designed and manufactured in the UK to the highest specification and is enclosed in customised machined aircraft-grade aluminium enclosure. It uses an integral Lithium-polymer battery pack and is supplied with an international charger. The complete system is supplied in a heavy duty military standard carry case for ultimate protection.

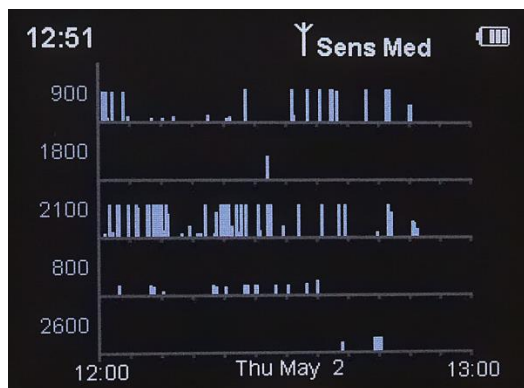




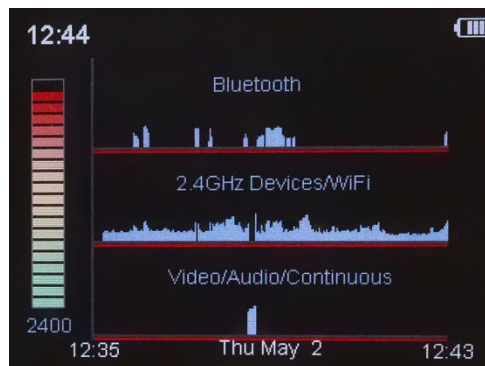
Live Cellular Mode showing two detected signals



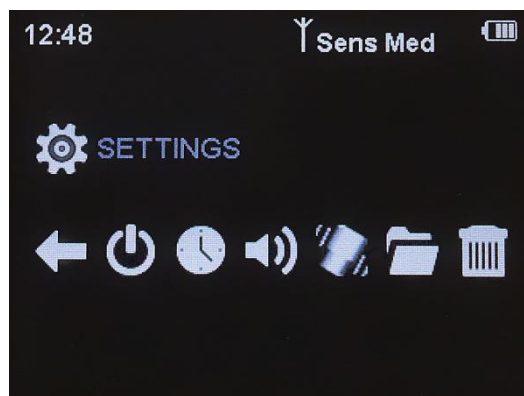
Live Cellular Graph Mode (8 Minutes)



Event Log Graph Mode (1 hour period)



Live 2.4Ghz Mode showing detected Bluetooth & Wifi



Settings Menu



USB Stick Socket for Event Log download

SUPPLIED ACCESSORIES

- Semi-Rigid Multiband Whip Antenna
- 5V DC Charger - 110V to 240V AC input (Auto Switching) with International Adaptors
- Heavy Duty Military Standard Carry Case

TECHNICAL SPECIFICATIONS

Typical Performance Characteristics - at 20 degrees C

Detected Bands

4G 800MHz

Band Width: 824 – 849 MHz
Out-of-Band Attn: >40dB typ
Min. Detection Level: -59dBm

2G/4G 1800MHz

Band Width: 1710 - 1785MHz
Out-of-Band Attn: >40dB typ
Min. Detection Level: -52dBm

4G 2600MHz

Band Width: 2500 – 2570 MHz
Out-of-Band Attn: >40dB typ
Min. Detection Level: -48dBm

2G 900MHz

Band Width: 880 - 915MHz
Out-of-Band Attn: >40dB typ
Min. Detection Level: -52dBm

3G (UMTS) (WCDMA) 2100 MHz

Band Width: 1925 - 1975MHz
Out-of-Band Attn: > 70dB
Min. Detection Level: -76dBm

WIFI/BLEETOOTH 2400MHz

Band Width: 2400 – 2485 MHz
Out-of-Band Attn: >40dB typ
Min. Detection Level: -56dBm

Display

TFT Colour 3.5' High Contrast Graphic Display

Battery

Internal 3.7V 2400 mAH Li-Ion rechargeable

Operating Duration – fully charged battery 8 hours

Charge Time – 4 hours

Operating Temperature Range

-15 to +50 degrees C - Relative Humidity < 90%

Dimensions

173mm x 103mm x 25mm

Weight

400 g – Main Unit

Signal Processing and Control

RISC Based Microcontroller with real time clock

Event Log

Maximum 4000 Events – Cellular Log

Maximum 24 Hours – 2.4GHz/Wifi/Bluetooth Log

USB Socket

For USB Stick download only