

## TCM505 Mobile Phone, GSM & 3G Detector



### Detects GSM900, GSM1800 and 3G(UMTS2100) devices

- Ultra Sensitive - Detects signals from up to 10 metres
- Filters all other ambient RF signals to avoid false alarms
- 10 LED bargraph display
- Detected Band LED to help identify device/network type
- Burst Detect for Tracker/SMS(Text)detection
- Silent Vibrate mode
- DC Power Socket for long term use
- Semi rigid tuned antenna

**The detector is designed to detect and locate transmissions from cellular mobile phone based devices** including mobile phones, vehicle trackers, GSM listening devices (bugs) and the latest covert wireless 3G cameras. It can be used in sensitive meeting rooms to check for hidden gsm bugs and 3G wireless cameras, unauthorised mobile phone usage in offices, hospitals or prisons and in vehicles to locate hidden tracking devices.

It will detect signals from GSM900, GSM1800 and 3G(UMTS2100) devices whilst filtering out all other ambient signals to ensure that only GSM/3G based devices are detected to prevent false alarms. The Internal ultra-high gain amplifiers ensure that signals can be detected from up to 10 metres (30 feet) away.

The built in signal strength meter (with optional audio beep tone) enables the precise source of the signal to be located with ease. The band of the detected signal is also displayed to help confirm the Cellular Network and device type. The Burst Detect function ensures short bursts such as those from trackers or SMS (text) messages will not be unnoticed.

A 10 LED bargraph display indicates signal strength along with an audio tone, enabling you to pin point the signal source precisely. If you wish to check for devices without alerting others the MPD-300x can be set to silent vibrate mode. If any signals are detected the unit will pulse vibrate silently, allowing you to keep it concealed on your person, in a jacket pocket, for example.

The system features a Digital Burst detector to ensure that short transmission bursts from trackers and other GSM/3G based devices are still detected. The system will alert you if a device has transmitted within the vicinity even for just a fraction of a second.

The TCM505 is supplied with a tuned multiband antenna also features a DC Power socket for applications of long term use.

## TECHNICAL SPECIFICATIONS

Typical Performance Characteristics - at 20 degrees C

### 2G 900MHz

Centre Frequency: 897.50MHz  
Band Width: 880 - 915MHz  
Out-of-Band Attn: >40dB typ  
Min. Detection Level: -35dBm typ  
Peak Detect Threshold: -31dBm typ  
Response Time: 100ms

### 2G 1800MHz

Centre Frequency: 1747.50MHz  
Band Width: 1710 - 1785MHz  
Out-of-Band Attn: >40dB typ  
Min. Detection Level: -30dBm typ  
Peak Detect Threshold: -27dBm typ  
Response Time: 100ms

### 3G(UMTS) 1950MHz [WCDMA]

Centre Frequency: 1950.00MHz  
Band Width: 1925 - 1975MHz  
Out-of-Band Attn: > 70dB  
Min. Detection Level: -75dBm  
Peak Detect Threshold: -70dBm  
Response Time: 100ms

### General Specifications

Antenna Type: Multi-Band Whip  
Connector: MCX  
Signal Strength: 10 LED bar-graph  
Detection Bands: 2G-900, 2G-1800, 3G(UMTS)  
Low Batt. Threshold: 6.8V  
Power Supply: 9V PP3 battery  
Current Consumption <70mA (no LEDs illuminated)  
External: 9-12V DC @ 200mA  
1.3mm centre -ve  
Dimensions 97 x 58 x 22 mm  
Weight: 150g