

# PROTECT 1207i

## Multi-channel detector of wireless protocols

The Protect 1207i is a new measuring device which can be successfully used by engineers or counter surveillance specialists as a reliable tool for tracing different digital transmissions such as GSM, Bluetooth, etc. New methods of 'listening and watching' with the help of modern technologies has become widely spread in our times. For example, a tiny GSM transmitter is accessible at practically any internet spy-shop for only 100-200 USD and can listen to all your conversations in the office or at home. And perhaps more importantly the Bluetooth protocol has been specially designed to transmit voices or conversations with high quality at a distance of up to 100 m - it can easily be used for bugging.

The sensitivity of a common RF detector (bug detector) is spread along a wide frequency range, usually 3, or even 6-7 GHz. This means the common detector cannot detect such weak and non-continuous signals as Bluetooth, Wi-Fi or Wi-Max. Even more powerful signals like GSM-1800 are also hard to detect because of their low sensitivity at higher frequency ranges.

The only way to reliably detect wireless protocols is to use pre-selector chips (saw filters) which attenuate all other signals except the desired ones. This is the method implemented in the Protect 1207i which has 6 channels for different frequency ranges and can simultaneously detect 6 different kinds of transmissions at a distance much greater than any common RF detectors.

Such qualities make the Protect 1207i a very desirable and reliable device during counter surveillance sweeps.

### Features

- Portable device for the inspection and location of wireless sources
- 6 channels of detection for different kinds of protocols
- Detection of GSM/CDMA/3G/DECT/LTE
- Detection of Bluetooth/Wi-Fi/Wi-Max
- Can be used for tracing both regular sources and illegal eavesdropping devices
- 6 bar graphs with 10-segments each, for accurate location of RF sources
- 4 modes: Silent, Vibration, Visual and Listen
- 2 levels of sensitivity (attenuator)
- Extra display shows probable protocol
- Durable metallic body
- Microprocessor controlled
- Setup mode with selection the threshold level for vibration.



### Detect the following kinds of bugging devices:

- Bugging devices using GSM/3G/LTE standards
- Alarm systems and baby monitors with 'Listen' function
- Spy phones (illegally pre-programmed)
- Bluetooth bugging devices
- GPS Trackers
- Wi-Fi/Wi-Max bugging devices
- Wireless videocameras 2.4/5.8 Ghz

### Specification

Frequency range (up-link bands)	
CDMA, LTE800 (4G)	824-849 MHz
GSM	880-920 MHz
GSM (DCS)	1710-1790 MHz
WCDMA, 3G, GSM (PCS), DECT	1920-2000 MHz
Bluetooth, Wi-Fi	2400-2480 MHz
Wi-Max/Wi-Fi High/LTE (4G)	2500-7000 MHz
Out of band attenuation	20-45 dB
Antenna	2 Omni-directional antennas
Detection distance	1-10 meters
Operation time	10-15 hours
Power	2 AAA (LR03) batteries
Dimensions (without antennas)	120 x 70 x 16 mm
Weight	217 g

### Bargraphs

The Protect 1207i has 6, 10-segment, 'SIGNAL STRENGTH' bar graph indicators providing the following precise information to the operator:

- CDMA/LTE800 (4G) standard
- GSM 900 standard
- GSM 1900 and CDMA 1900 or GSM 1800
- WCDMA (UMTS, 3G), most of the modern DECT telephones or as above plus GSM 1900 and CDMA 1900
- Wi-Fi access points and adapters, Bluetooth devices
- All transmitters in the range of 2.5-7 GHz, including most kinds of the Wi-Max, Wi-Fi High/LTE (4G) protocols

