iPROTECT 1210

Portable bug detector

Digiscan Labs.
Securing Information Digitally

Applications

- Searching for active radio transmitting surveillance devices (or RF bugging devices) in premises, vehicles and items
- Discovering the improper use of mobile phones and other communication equipment for picking up conversations. The information in this case can be transmitted to another phone or recorded onto an answering machine.
- Detection of harmful emissions from GSM-jammers or mini recorder Suppressors
- Detection of harmful emissions from microwave ovens, communication antennas and other electronic appliances

Main features of the iProtect 1210

- Detection of all kinds of active radiotransmitting devices including digital signals
- Operation driven by microcontroller
- Card-style durable body. Does not attract people's attention when used or transported.
- Working frequency range 50-3000 MHz
- 4 working modes: Normal, Sound, Vibro and Sleep
- 8-segment bar graph indicator for precise measuring of the radio field level and location of a bugging device
- Integrated antenna
- Calibrated sensitivity for rejection of background fields
- "Low battery" indicatior
- "Pulse" indicator for recognizing digital transmitters including GSM and DECT
- Powered by a CR2430 lithium battery

Controls

1. 'Pulse' indicator
   This LED lights up when a pulse field is present near the unit. Such a field is usually produced by GSM/DECT telephones or can be created by a bugging device with a 'non-standard' type of transmission.
2. Indicators of working mode
3. Button for selection of working mode:
   - **Normal**. In this mode the iProtect 1210 will indicate an increase of the RF level on the bar graph. No sound will be produced.
   - **Sound**. In this mode the iProtect 1210 will produce the sound of a demodulated signal. In close vicinity of the FM-modulated bugging device a loop-back effect should appear. A buzzing sound will appear near digital transmitters like an active GSM phone. This mode allows the user to identify the transmitter.
   - **Vibro**. This mode is used for covert operation or for situations when the operator cannot watch the bar graph. An increase of the RF level will cause the builtin vibrator to activate.
   - **Sleep.** In this mode the iProtect 1210 'wakes up' every 3 seconds and checks the current RF environment. If there is an increased level the unit will indicate this with an alarm sound. The detector will stay active until the high level disappears.
4. This indicator turns on when the battery is low and should be replaced.
5. Power on/off
6. Speaker
7. Bar graph indicator. Displays current level of the electromagnetic field and helps the user to locate bugging devices. Location is carried out by moving the unit into the strongest level area. The bar graph consists of 8 LEDs and shows the current level with the help of 3 of them at any one time. As the field becomes stronger this group scrolls up. For powerful signals the group goes up further until two or one diode remains on.
8. Indicator of the current sensitivity level
9. Zeroing the sensitivity of the detector according to the current RF level. The unit will store the current level and clear the bar graph so that it will show stronger signals only. Perform this action before approaching the target zone or when you are trying to locate the RF source. Use this control each time it is necessary to retune the sensitivity — when you enter an area with a lower or higher level of background noise.

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