

# Detection Devices

## iProtect 3-Band RF Detector (Item: DD1216)

One Device shows 3 different types of detection at once displayed in a bar graph. Registers VHF/UHF 50-700 MHz, Mobile and Wireless 700 MHz- 3 GHz and Microwave and Wireless 3-12 GHz.

### Features:



The iProtect 1216 is a professional RF detector created for discovering all types of RF eavesdropping devices, including **analog and digital**, as well as those that transmit information over mobile networks and using wireless standards.

## Key features

- **3-band detection**

The frequency range of the 1216 has been split into 3 parts, each displayed by a separate bargraph: "VHF/UHF 50-700 MHz", "Mobile and wireless 700 MHz – 3 GHz" and "Microwave and wireless 3-12 GHz". The separate indication allows the operator to understand better what type of signal is detected, to detect several signals at the same time and to sustain the ability of detection near the sources of interference

- **Microwave**

The third "microwave" band of the iProtect 1216 covers the 3-12 GHz frequency range. This band detects Wi-Fi and other wireless protocols operating at 5 GHz and on any higher frequencies. The microwave frequencies are supposed to be more covert since they are not detectable by common RF detectors. The iProtect 1216 finds these signals easily

- **Alarm**

The Alarm feature helps the operator to reject background interference by adjusting the threshold. When a signal exceeds the alarm threshold the device produces an alerting sound. The Alarm is also extremely convenient when probing hard-to-access places or keeping the device in the "guarding" state. The alarm threshold has 48 tuning steps

- **Histogram**

In the ONE BAND display mode the iProtect 1216 shows the histogram for the selected band in addition to the bargraph. The histogram draws the history of the signal obtained over the last 5 seconds and is very informative when observing

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intermittent/periodical signals or when probing the area quickly

- **Wi-Fi and 3G, 4G LTE**

The iProtect 1216 has a significantly higher sensitivity to the 3G, Wi-Fi and Bluetooth bugging devices compared to conventional RF detectors. This advantage was achieved with the help of the additional radio frequency paths in the circuit dedicated to the specific frequency spans

- **Signature**

In addition to drawing a bargraph the iProtect 1216 can identify some types of signals and show a corresponding message on the display: cordless DECT device in an "idle" state, active DECT device, GSM, 3G, Wi-Fi/Bluetooth

## All features

- Detects all types of RF transmissions including analog and digital, audio and video
- Frequency range 50 MHz – 12 GHz
- Separation into 3 bands helps to avoid loss of sensitivity near strong interference
- ALL BANDS and ONE BAND display modes
- High sensitivity to 3G and wireless protocols (Wi-Fi, Bluetooth, etc.)
- Working modes: SILENT, AUDIO and ALARM
- Adjustable alarm threshold
- Portable, reliable and easy-to-use
- The BARGRAPH shows the momentary RF level
- The HISTOGRAM displays the RF signal over 5 seconds (in 'ONE BAND' display mode)
- The SIGNATURE displays the possible signal type
- Built-in directed microwave antenna
- Shock-resistant CNC milled duralumin housing
- Rechargeable Li-Ion battery with resource of 6 hours
- Controlled by microcontrollers
- 2x built-in OLED displays

## Tech Specs:

- Frequency Range: 50 MHz – 12 GHz, Band 1: 50 – 700 MHz, Band 2: 700 MHz – 3 GHz, Band 3: 3GHz – 12 Ghz
- Charging Port: USB
- Battery Recharge Time: 4 hours
- Battery Resource: 6 Hours

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- Battery: Rechargeable Li-Ion 1150mAh @ 3.7v
- Threshold settings: 48 steps
- Microwave Antenna: Built-in (band 3)
- RF Connector: SMA (band 1 & 2), 50Ohm
- Working Modes: Silent, Audio, Alarm
- Display Modes: All Bands, One Band
- Indicators: Main Display & Status Display
- Operating Temp: 14-113°F

## Includes:

- Detector
- Rod Antenna
- Mini-USB Charging Cable

