SOLUTIONS FOR COUNTER SURVEILLANCE AND THE PROTECTION OF CONVERSATIONS

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Securing Information Digitally

iPROTECT 1216
Counter surveillance 3-band RF detector

The iProtect 1216 is a new 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 intermittent/periodical signals or when probing the area quickly

Wi-Fi and 3G

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.
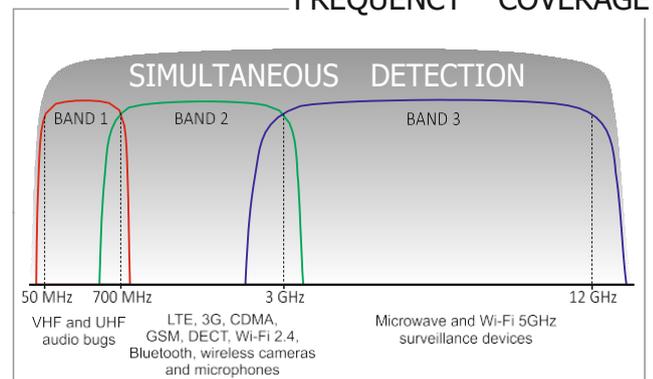
ALL FEATURES

- 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
- 2 x built-in OLED displays

SPECIFICATIONS

Frequency range	50 MHz – 12 GHz Band 1: 50 – 700 MHz Band 2: 700 MHz – 3 GHz Band 3: 3GHz – 12 Ghz
Indicators	Main display Status display
Display modes	ALL BANDS, ONE BAND
Working modes	SILENT, AUDIO, ALARM
RF connector	SMA (band 1 and 2), 50 Ohm
Microwave antenna	Built-in (band 3)
Threshold settings	48 steps
Battery	Rechargeable Li-Ion 1150mAh@3.7V
Battery resource	6 hours
Recharge time	4 hours
Recharge source	USB
Dimensions with antennas	173 x 71 x 21 mm
Weight	265 g
Operating temperature:	-10° C to 45° C

FREQUENCY COVERAGE

SIMULTANEOUS DETECTION

BAND 1   BAND 2   BAND 3

50 MHz   700 MHz   3 GHz   12 GHz

VHF and UHF audio bugs

LTE, 3G, CDMA, GSM, DECT, Wi-Fi 2.4, Bluetooth, wireless cameras and microphones

Microwave and Wi-Fi 5GHz surveillance devices

SUPPLIED SET

Detector, rod antenna, mini-USB cable for recharging, user manual

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.

SUPPLIED SET

Detector, 2 Omni-directional antennas, 2 AAA (LR03) batteries, user manual

Detect the following kinds of bugging devices:

- Bugging devices using GSM/3G/LTE standards
- Spy phones (illegally pre-programmed)
- GPS Trackers
- Alarm systems and baby monitors with 'Listen' function
- Bluetooth bugging devices
- 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

BUG DETECTORS

PROTECT 1206i
Detector of bugs and digital transmissions

NEW FEATURES

New wide-band antenna (for ANT1 socket)
Wider coverage, particularly at lower frequencies, has made it possible to increase the detection distance of a conventional VHF/UHF bug by 2-3 times, while saving perfect sensitivity at the higher bands (GSM, 3G, Wi-Fi, Bluetooth, etc.)

New Micro-Pointer microwave antenna (for ANT1/ANT2 socket)
This is the first time when an affordable RF detector gets the microwave log-periodic directed antenna supplied in the standard set. 2-4 times longer distance to all sources above 2GHz (Wi-Fi 2.4GHz, Wi-Fi 5GHz, Bluetooth, Wi-Max, LTE High, etc.). The directionality provides easy pinpointing of a wireless source. Now you not only know that there is a Wi-Fi source, but can quickly pinpoint it.

Increased dynamic range
The bargraph now rises quickly to weak signals and increases slowly to strong signals, thus giving the opportunity to locate the source

New Attenuator
The new algorithm widens the dynamic range even more, making the location procedure easier. Turn on the attenuator near a strong source, the bargraph which lights fully will drop and then increase further, therefore making it possible to locate more precisely.

OTHER FEATURES

- Extra high sensitivity to Bluetooth, Wi-Fi 2.4 GHz, Wi-Fi 5GHz and wireless video cameras
- Frequency range:
  - Main antenna ANT1: 50-12000 MHz
  - Auxiliary antenna ANT2: 2.4 - 2.48 GHz, 4.9 - 5.875 GHz
- The perfect tool for searching for digital and analogue transmitters of all types
- 16-segment bargraph indicator
- 3 modes: sound, vibration and mixed
- Correlation function discovers FM-transmitters by the presence of correlation (probing sound is used)
- 2 levels of sensitivity (attenuator)
- Long battery life
- Durable metallic body
- Microprocessor controlled

The Protect 1206i is a new class of a counter surveillance device. Unlike all typical searching devices it can detect modern hidden bugs which use such protocols as Bluetooth and Wi-Fi. Such bugs, especially Bluetooth types, are practically undetectable by common RF detectors due to their very low transmitted power and a special type of modulation. The Protect 1206i uses a separate channel with a high, (2.44/5 GHz) frequency pre-selector to detect and locate Bluetooth and Wi-Fi with a much higher sensitivity. The unit also then processes the demodula- ted signal in order to identify which protocol has been detected.

In addition the unit can detect all types of conventional bugging devices (FM-modulated transmitters, digital transmitters, GSM-bugs, etc.) using its distinctive features:

- Active correlation: inspecting dangerous places with the probing sound impulses while watching the demodulation bar graph
- Recognition of type of digital transmission: GSM, Bluetooth, Wi-Fi, DECT
- 4 working modes: silent, sound, vibration and mixed
- Wide dynamic range thanks to the 16-segment bar graph
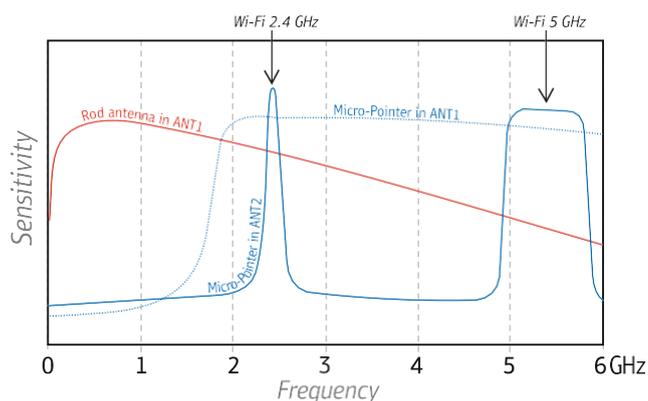
Sensitivity graph of the Protect 1206i

SPECIFICATIONS

Frequency range	Antenna 1: 50-12000 MHz; Antenna 2: 2.4 - 2.48 GHz; 4.9 - 5.875 GHz
Power	Two AAA batteries (2xLR 03)
Dimensions	With out antennas: 120x70x16 mm; With antennas: 210x70x16 mm
Current consumption	Up to 30 mA
Operation duration	Up to 20 hours
Indications	Active antenna, Low battery, Mode, Identification, Attenuator, Secondary demodulation
Micro-Pointer Antenna	
Frequency range	2-12 GHz
Type	Log-periodic array
Model name	LPDA-12
Dimensions	53 x 84 x 9 mm
Connector	SMA Male

SUPPLIED SET

The Protect 1206i comes with the following accessories:

1 x Rod antenna   1 x Micro-Pointer antenna   2 x LR03 (AAA) batteries   1 x User's Manual

iPROTECT 1205
Pen-style RF detector

FEATURES

- Easy and quick detection of RF bugs of different types, including VHF/UHF transmitters, GSM bugs, wireless video cameras, Wi-Fi audio and video transmitters, vehicle transmitters, body-carried transmitters, etc.
- 3 working modes: Normal, Vibrating and Audio
- Wide frequency range 50-6000 MHz
- Powered by just 1 x AA battery
- 16-segment bargraph indicator
- Physical attenuator provides the ability to locate strong RF sources
- Highly sensitive to real signals without being affected by weak background radio waves
- No sensitivity loss at battery discharge
- Low power indication
- High-quality detection scheme with professional RF isolation
- Reliable and tested device for different sweeping tasks
- Detects both analogue and digital transmissions
- Allows the operator to locate the source
- Vibrating signal for concealed indication of a high RF level and testing hard to access places
- Durable duralumin case
- Battery resource 10-20 hours

PARTS DESCRIPTION

Designed for simplicity, the iProtect 1205 contains powerful highly-sensitive elements in its circuitry, allowing the operator to conduct countersurveillance sweeping at a highly professional level. The advantage of RF detectors is their wide frequency coverage and their ability to show radio waves right near the source and therefore show the location of the transmitter.

The iProtect 1205 solves this task in the best possible way, accurately eliminating any background noises and indicating real signals. With the help of the 1205 the operator can track all RF sources and is therefore able to find the bugging device if there is one present.

High-sensitivity RF antenna   Attenuator function   Power on/off

16-segment bargraph

172 mm

19 mm

Vibrating and audio modes

The iProtect 1205 has a 16-segment bargraph indicator which allows the operator to see the slightest changes in level and as such accurately find the area with the strongest signal for location.

When it is necessary to decrease the sensitivity, typically during the location process, the operator can use the attenuator function ATT. The iProtect 1205 has a 'physical' (as in professional communications) RF attenuator of a level up to -20dB. The corresponding indicator will show the attenuator status.

The working mode (Vibrating/Audio/Normal) can be selected by the MODE button. The vibrating mode allows the user to 'feel' the increased level without actually watching the bargraph. This is convenient during the process of inspecting hard to access places like gaps under/behind furniture and construction. The Audio mode helps the user to identify signals in many cases.

The power can be turned on and off with the help of the button on the bottom tip of the detector. The battery compartment is also situated there.

When the battery becomes low, the power indicator changes its color from green to orange. When the battery is about to discharge completely, the power indicator becomes red.

The device is powered by 1 LR06 (AA) battery. The resource time is 10-20 hours.

SPECIFICATIONS

Frequency range	50MHz-6GHz
Controls	Power button, Mode buton, ATT button
Indicators	1) 16-segment bargraph; 2) Vibration 3) Battery state (3 colors) 4) Working mode 5) ATT state
Batery recource	10-20 hours
Dimensions	172 x 19 mm
Frequency range	100 mA in stand-by mode 200 mA at a full bargraph
Power source	1 x AA battery (LR06)

SUPPLIED SET
Detector, 2 AAA (LR03) batteries, user manual

iPROTECT 1215
Microwave pointer

FEATURES

- Detects bugging devices omitted by standard RF detectors
- Discovers microwave signals in the range of 4-13 GHz
- Detects signals not depending on their type – video, audio, digital or analogue
- Built-in directed antenna
- 3 working modes: Normal, Vibrating and Audio
- 16-segment indicator for easy and precise pinpointing of the bugging device
- Sensitivity controlled by attenuator
- Antenna's directivity (out-of-direction attenuation) -6 dBm
- Portable and durable duralumin body
- Powered by just 1 AA (LR06) battery
- Low power indication
- Battery resource 12-25 hours

Conventional RF detectors are typically capable of discovering signals up to 4-6 GHz; therefore higher frequencies usually stay unstudied during sweeping procedures, unless you apply an expensive spectrum analyzer.

The new microwave pointer-probe iProtect 1215 was designed to extend the checked frequency range during sweeping procedures up to 13 GHz. It can find surveillance bugging devices which are usually not detectable by standard RF detectors. The directed antenna allows the operator to understand where the signal originates from and, as such, to locate the source physically.

Typical signals detected by iProtect 1215 are:

- Wireless microphones working on 5 GHz frequency band
- Wireless video cameras 5GHz
- Covert 5GHz Wi-Fi access point
- Covert 5GHz Wi-Fi client device
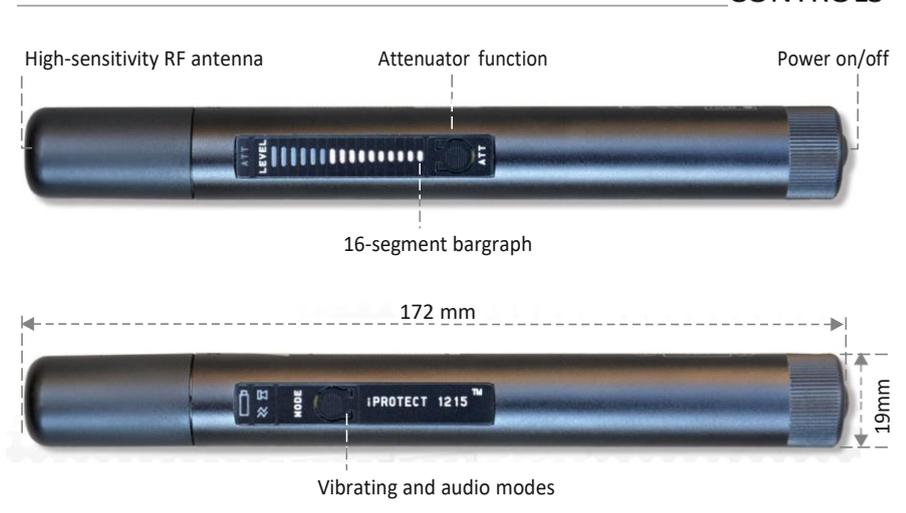- Other surveillance (bugging devices) employing frequencies between 4-13 GHz

SUPPLIED SET

Detector, 2 AAA (LR03) batteries, user manual

SPECIFICATIONS

Frequency range	4000 – 13000 MHz (4-13 GHz) Power button, Mode button, ATT button
Indicators	• 16-segment bargraph • Vibration • Battery state (3 colors) • Working mode • ATT state
Battery resource	12 – 25 hours
Dimensions	172 x 19 mm
Current consumption	Normal: 80 mA Vibrating: 180 mA Audio: 130 mA
Power source	1 x AA battery (LR06)

CONTROLS

High-sensitivity RF antenna   Attenuator function   Power on/off

16-segment bargraph

172 mm

19mm

Vibrating and audio modes

ODA-4

OMNIDIRECTIONAL WIDEBAND ANTENNA

- Can be used with any RF equipment, including receivers, spectrum analyzers, RF detectors, etc.
- Increased sensitivity in the range of 80 MHz - 4000 MHz
- Tripod mountable (tripod supplied)
- The tripod can convert to a hand-held unit for manual probing (locating procedure)
- Connector type: SMA
- 80 cm cable
- Dimensions (without tripod) 20 x 3.5 x 0.6 cm
- Mode of use: receive
- Indoor use only

MWA-6

MICROWAVE ANTENNA

- Can be used with any RF equipment, including receivers, spectrum analyzers, RF detectors, etc.
- Is particularly good for the location of GSM, CDMA, 3G, 4G (LTE), 5G(<6GHz), Wi-Fi 2.4GHz, Bluetooth, Wi-Fi 5GHz, DECT and other digital transmissions
- Frequency range 800-6500 MHz
- Directed (log-periodic)
- Typical forward gain: 6 dBi
- Tripod mountable (tripod supplied)
- The tripod can convert to a hand-held unit for manual probing (locating procedure)
- Connector type: SMA
- 80 cm cable
- Dimensions (without tripod) 18 x 14.5 x 0.7 cm
- Mode of use: receive
- Indoor use only

MWA-12

MICROWAVE ANTENNA

- Can be used with any RF equipment, including receivers, spectrum analyzers, RF detectors, etc.
- Is particularly good for locating digital transmissions above 2GHz: 4G/LTE(2-12GHz), 5G (2-12GHz), Wi-Fi 2.4GHz, Bluetooth, Wi-Fi 5GHz; For tracing other microwave sources, including bugging devices
- Frequency range 2000-12000 MHz
- Directed (log-periodic)
- Typical forward gain: 8 dBi
- Tripod mountable (tripod supplied)
- The tripod can convert to a hand-held unit for manual probing (locating procedure)
- Connector type: SMA
- 80 cm cable
- Dimensions (without tripod) 8 x 6 x 0.7 cm
- Mode of use: receive
- Indoor use only

DELTA X
Counter surveillance sweeping system

FEATURES

- Quickly and reliably detects all kinds of RF listening devices, including analog, digital, constantly existing and intermittent, sending audio or video, with or without encryption
- Finds hidden surveillance devices employing the digital standards GSM,3G,4G/LTE, Bluetooth, Wi-Fi, DECT, etc.
- Detects illegal information transmission in AC, telephone, Ethernet, alarm and other wires as well as in the infrared range with the help of the supplied Multifunction Probe
- Can work in instant detection mode, guarding mode, locating mode and car tracker detection Has a 20-50 times higher sensitivity and detection distance compared to conventional RF detectors and near-field receivers
- Can monitor the RF environment 24 hours a day with data logging
- Capable of detecting covert bugging devices with an accumulation function and transmitters hidden within the spectrums of other signals
- Supports storage of an unlimited quantity of signals. Full information is stored in the log and can be reviewed during the detection, or at a later time. Multiple logs are supported
- Demodulation of audio in FM, AM, USB, LSB, CW (adjustable BW 3...240 kHz)
- Alarm relay output can activate external devices when a dangerous signal is detected (turn on a CCTV system, for example)
- Comes in a robust case that allows you to place a 13-14" laptop inside (laptop included in the supplied set)
- Powered from the laptop's USB

3 VERSIONS AVALAIBLE

2000/6 Real-Time	100/12	100/4
• High update rate, 2000-3000 MHz per second	• Update rate of 100 MHz per second	• Update rate of 100 MHz per second
• Frequency range 40 kHz – 6000 MHz	• Frequency range 100 kHz – 12400 Mhz	• Frequency range 40 kHz – 4400 MHz
• Reaction time: 2-3 seconds	• Reaction time: 60-120 seconds	• Reaction time: 45 seconds
• Instantly detects digital signals with short bursts	• Detects digital signals with short bursts by accumulating data	• Detects digital signals with short bursts by accumulating data
• Can detect and locate the transmitter simultaneously		

ADVANTAGES

›› Form-factor: a portable system controlled by a laptop computer

- The high capacity of a laptop's hard drive enables full data logging during the detection (24/7 possible)
- Wider screen is more convenient for analysis
- Compatible with touch screen laptops
- The handheld use of antennas is more convenient for locating transmitters in hard to access places

›› Handling of the mobile and wireless bands GSM, CDMA, 3G, 4G/LTE, DECT, Wi-Fi, Bluetooth, etc.

- Mobile and wireless signals are detected simultaneously with analog transmissions
- Mobile/wireless signals are detected with the use of individual thresholds and are displayed separately from other signals
- Activities within each band are stored as one signal with a certain danger level to avoid excessive records in the Signals table and to locate the sources with a hopping frequency
- Additional sweepings on the "short-burst" bands are performed to increase the probability of interception of such signals as GSM, 3G, 4G, DECT, Wi-Fi, Bluetooth, etc.
- External interference from neighboring mobile phones and Wi-Fi routers can be rejected with the help of the thresholds
- The supplied data files allow the operator to adjust the system to the mobile/wireless bands employed in the country of use

›› Sensitivity and detection distance

- The built-in spectrum analyzer has 20-50 times higher sensitivity and detection distance compared to conventional RF detectors and near-field receivers
- Resistant to interference - sensitivity remains high regardless of the proximity to wireless routers, cordless phones, mobile phones, TV towers, radio broadcasting and mobile communications

›› Support of the "Known signals" table

- The operator can easily distinguish between safe and dangerous signals
- The radio and TV frequencies employed in the country of use can be quickly collected and stored for further use

›› Advanced signal recognition method

- The signals are automatically recognized in the spectrum traces and inserted or updated in the Signals table
- Both analogue and digital signals are captured with an assigning of a corresponding Danger level

›› Unique algorithm of measuring the signal's Danger level

- Uses a combination of the reference trace and individual thresholds for mobile/wireless bands
- Takes into consideration both the signal's strength and bandwidth
- Works for both analogue and digital signals including transmissions with a changing frequency
- Is used during the locating procedure and provides more reliable results compared to the traditional "signal strength" method

›› Low demands on the operator's level of knowledge

- The system can be prepared for detection with the help of the "Update Masks" procedure within a few minutes
- Manual handing of spectrum traces is not needed
- The operator is warned by an audio alarm when a dangerous signal is detected

›› Data logging

- All the spectrum traces and alarms are logged during detection, so the situation at any given time can be reviewed and studied
- 24 hours a day logging provides detection of periodically working/remotely controlled bugging devices

›› Tracking of the signal's activity

- The full history of each separate signal, or of all signals simultaneously, is displayed on the Alarms graph
- The events at any given time can be reviewed by simply clicking on the graph

›› The Waterfall and Persistence graphs

- Both the present and previous measurements at any given time can be displayed
- The displayed time interval (density) is selectable in the range of 2 minutes to 6 hours

›› Car Tracker Detector mode

- The monitoring of mobile bands can detect signals from any GPS tracker hidden within a vehicle

DELTA X
Counter surveillance sweeping system

FUNCTIONS OF SOFTWARE

▶▶ Rich visual representation: Spectrogram/Persistence, Waterfall, Alarms graph

▶▶ The Known Signals table allows the system to reject TV, FM and other "friendly" signals while maintaining high sensitivity to unknown signals

▶▶ The Detector and Locator allow the operator to perform location of a bugging device with both visual and audio notification

▶▶ The Alarm Threshold decreases the false alarm rate

▶▶ The Hold Max Danger feature selects and shows the strongest signals for their location as the system is moved during detection

▶▶ The Update Mask procedure allows the operator to quickly adjust the system to the local RF environment in order to reject safe signals

▶▶ Sorting and filtering is supported in the Signals table

▶▶ The Report function allows the operator to export all obtained information about the desired signals

WORKING MODES

✓ **Stop/View Log**
Review of the detection results stored in the log. The Signals table, Spectrogram, Waterfall and Alarms graph give full information about the detected signals and alarm events

✓ **Update masks**
Quick preparation for detection – the system automatically accumulates the broadcasting and other safe signals existing in the area in order to pass over them during the subsequent detection

✓ **RF Sweep**
The main detection mode. Provides maximum reaction time and the highest sensitivity. The operator can move the system or its antenna during the detection

✓ **Guard 24/7**
Rejection of short transmissions and usage of two antennas reduces false alarms in this mode. Suitable for 24 hour detection without unwanted false alarms

✓ **Car Tracker Detector**
Detection of vehicle mounted GPS trackers transmitting the coordinates via mobile networks

✓ **Probe**
Checking of AC, Ethernet, Telephone and Alarm wires and the infrared/low frequency for the presence of unwanted bugging signals

✓ **Signal Analyzer**
Analysis, demodulation and physical locating of detected signals

SPECIFICATIONS	2000/6 Real-Time	100/12	100/4
Update rate	2000-3000 MHz/sec	100 MHz/sec	100 MHz/sec
Frequency range	40 kHz - 6000 MHz	100 kHz - 12400 MHz	40 kHz - 4400 MHz
Reaction time (How quickly a dangerous signal is detected)	2-3 sec	60-120 seconds	45 seconds
Spectrum resolution	9 kHz	15 kHz	15 kHz
Occupied disk space per 24 hours	12 Gb	1 Gb	0,5 Gb
Temperature Range	0°C to +65°C	0°C to +50°C	0°C to +70°C
Demands on computer	3rd gen. or newer Intel dual/quad Core i-series 1 x USB 3.0, 2 x USB 2.0 Windows 7, 8, 10 13-14" screen recommended	Intel® Atom™ N2600 or Intel® Core™ i3 2 x USB 2.0 Windows 7, 8, 10 13-14" screen recommended	
Displayed dynamic range	-90...-10 dBm		
Displayed spectrum spans	0.5, 1, 2, 5, 10, 25, 50, 100, 200, 500, 1000, 2000, 3000, 6000 MHz		
Spectrum graphs	Spectrogram, Waterfall		
Spectrogram's displayed data	Persistence, Live, Max, Threshold		
Detector's modes	Wide-Range, Signal, Selection		
Fields of "Signals" table	Frequency, Bandwidth, Name, dbm Level, dbm Peak Level, Danger Level, Peak Danger Level		
Fields of "Bands" table	Begin, End, Name, Type, Threshold, Priority, Tracker detection		
Fields of "Known Signals" table	Frequency, BW, Name, Modulation		

SUPPLIED SET

• Main unit with the built-in spectrum analyzer and RF switcher
• Software Delta X on the USB flash memory
• ODA-4 - omnidirectional antenna
• MWA-6 - microwave antenna
• MWA-12 - microwave antenna (100/12 only)
• Multifunction Probe with cables
• Coaxial low-attenuation cable 5 m
• In-line modular adapter
• Tripod convertible to handle
• Set of accessories

Multifunction Probe

SCREENSHOTS

Detector of hidden video cameras

FEATURES

- Detection of all types of hidden video cameras not depending on their working state
- Distance of detection between 2 and 10 meters
- IR filter for rejection of natural reflections
- Adjustable power of radiation
- Powered by 2 AAA batteries
- Battery discharge indicator
- Size 140x34x16 mm

This unique device was created for professionals in the sphere of surveilance countermeasures. Thanks to its optical principle the "WEGA i" can discover lenses of all types of covert cameras not depending on their working state.

The WEGA's LED matrix radiates a powerful infrared beam which is then reflected by a video camera's optics and is easily detected by the operator.

The IR-filtering glass built into the "WEGA i" helps the operator to avoid natural reflections from surfaces and concentrate on finding the exact location of a hidden camera.
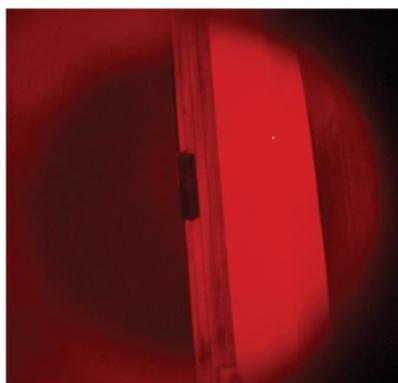
SUPPLIED SET

Detector, 2 AAA (LR03) batteries, user manual

EXAMPLES OF DETECTION

■ Body-carried video camera in a tie   ■ Video camera in a wall   ■ Video camera in a copying machine

EXAMPLES OF VIDEO CAMERAS which can be found by **WEGAi**:

Protection of conversations against all kinds of eavesdropping

Top-of-the-line protection system. This is the only device in the world which can give 100% protection to your conversations against interception or recording. The DRUID D-06 creates powerful interference against all kinds of listening devices! Even if a person is standing next to the participants, they will not be able to understand what is being said. The headsets allow the users to hear each other clearly while the DRUID's central unit produces interference. Powered from 220V or the internal rechargeable battery with a resource time of 4-6 hours. The unit is supplied in a carry case.

Not all listening devices can be detected by existing methods. The DRUID D-06 is a unique system for providing protection of human's speech.

Remotely controlled radio microphones, wired microphones, passive resonators, miniature voice recorders practically all these devices cannot be detected by conventional methods. Even a modern cellular phone may contain a digital voice recorder; this means that any phone lying on the desktop could be used by an adversary to record a conversation.

Therefore it is extremely important to have a reliable device protecting private conversations, not depending on their level of importance. The concept of the DRUID is based on generating audio interference produced simultaneously with a human's speech. The volume of this interference is higher than a person's voice; therefore neither listening device nor recorder is able to pick it up.

The generated audio interference cannot be cleared by any noise-clearance methods. At the same time the produced interference does not create any inconvenience to the participants of the negotiation thanks to the special headsets. The DRUID headset allows users to hear each other with crystal clear quality. Each headset has a built-in RF detector which guarantees protection against bugs which can be carried in the ear.

FEATURES

- Professional system for protecting speech between up to 6 persons
- Protects against all known methods of listening, including all types of radio microphones, stethoscopes, voice recorders, passive resonators, wired microphones, etc
- The system uses usual multimedia headsets
- Absolutely harmless to your health: no microwave reflections or ultrahigh sound noise
- Compared to a white-noise generator the DRUID provides a much higher level of protection
- The system is portable: supplied in a plastic carry-case it can be easily prepared for use
- Powered from an internal rechargeable battery the DRUID D-06 can work for up to 6 hours without mains supply
- The system can be used in any situation, it is especially valuable, when conducting highly important negotiations in an unknown environment

SUPPLIED SET

1 x charger/power supply, 6 x headsets, 1 x carry case, user manual

■ Headset for DRUID D-06

■ Supplied set

SPECIFICATIONS

Type of noise	Distortion+Reverberation
Number of channels	6
Power source	AC 220V / rechargeable battery
Duration of work from internal battery	4-6 hours
Dimensions	23x6.5x17 cm

MNG 300 "Rabbler" Edition

Mobile noise generator

FEATURES

- Was designed by TSCM/countersurveilance professionals and will protect you against all types of eavesdropping when used in correspondence with the recommendations

- Employs a new approach to the problem of conversation protection. Uses a new, speech-like noise which, in the most of cases, has proven to be more efficient when compared to white noise

- The noise has been 'compiled' using real human conversations and is similar to the noise of a 'rabble' in busy public places. This type of noise is the most effective when creating interference to voice recorders and listening devices, especially when the size of the protective device is critical

- Is a portable, cigarette-pack sized device which can easily be transported in a pocket or a small bag

- Has been specifically designed for situations when the safety of conversations is extremely important on the one hand, and on the other hand the protective device should be as small as possible to allow easy transportation while not giving away your intentions.
  As the Rabbler is always nearby, it can easily be taken out and used anytime with the slightest chance of any information leakage

- Kinds of listening devices rendered useless by the **MNG-300 "Rabbler"** Edition:

  - Voice recorders
  - Radio microphones
  - GSM/3G "bugs"
  - Body-carried video cameras - watches, ties, etc. (jamming of acoustics)
  - Wired microphones
  - Any other type of audio surveillance

- The MNG-300 Rabbler creates additional barrier interference which masks your speech. It is when a certain noise level is reached that listening devices will record or transmit information, it is extremely difficult, or impossible, to extract the speech component. Since the generator creates a 'speech-like' noise, the cleaning of this sound is extremely difficult or most likely impossible, if the level of noise is sufficient

- The housing of the unit is made from a very reliable material and is extremely durable, guaranteeing a long life for the device

- The size of the MNG-300 Rabbler is comparable to a pack of cigarettes and can even be carried inside one in order not to attract attention, although an attractive leather case is supplied

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Please note that the MNG-300 Rabbler is just a tool, complementing and reinforcing the measures taken to protect you from eavesdropping and recording. First of all the security of your conversation depends on yourself, and later from the device. Therefore, during sensitive negotiations it is important not to increase the volume of your voice. Imagine that you are sitting in a crowded coffee shop and do not want to be heard by the people at the next table; that means your speech should not be too loud. If possible, lean forward towards your interlocutor or sit closer to each other, then place the generator on the table between you.

It is not advisable to use only one MNG-300 Rabbler if the number of participants is more than 4. In this situation, it may be necessary to use one or two additional devices. Also, while in use do not hide your generator, e.g. in your pocket or a bag! Your conversation should be "drowned" in noise; therefore the unit should be as close to the speakers as possible.

SPECIFICATIONS

Frequency range	300 Hz - 3600 Hz
Power	9V
Current consumption	Up to 120 mA
Dimentions	85x53x21 mm
Controls	Power, Volume Indicator, Level

USAGE

SETTING OF LEVEL

POWER ON/OFF

LEVEL OF NOISE

SUPPLIED SET

Generator, 1x 1604A (6LF22) battery, user manual

DNG 2300
Digital white noise generator

FEATURES

- Creates powerful protection against the leakage of all types of vibro-acoustics by injecting non-filterable noise into surrounding structures and cavities
- Suppresses wall contact microphones, window laser systems and wired microphones inside walls, voids and ventilation shafts (air ducts)
- Is a key part of the protection system which also includes wire-connected transducers and speakers
- Generates white noise – the output interference is evenly distributed through the spectrum of a human's voice
- Has 3 independent output channels: 2 x TRANSDUCERS and 1 x SPEAKERS
- All 3 channels have individual level adjustment
- Each TRANSDUCERS channel can feed up to 12 transducers mounted on solid structures (concrete/cement/bricks) and up to 24 transducers on light structures (glass, pipes, drywall, wood)
- The SPEAKERS channel can feed up to 12 speakers
- The MUTE control input allows the user to turn off the speakers temporarily

VIBRO-ACOUSTIC EAVESDROPPING

It is well-known that sound permeates through walls, doors, water, windows and other constructions as well as through voids, cavities and ventilation shafts. This property of materials makes it possible to intercept conversations conducted within a premises with the help of highly sensitive contact microphones (electronic stethoscopes), window laser systems or conventional microphones without entering the target area.

Wall contact microphones can pick up vibrations from the plumbing, structures, walls, windows, doors, floors, ceilings and more. The listening device may be in an adjacent room, or even several floors or rooms away attached to a wall, pipe or other fixture. Cavities such as air ducts, ventilation shafts or other voids can be used for intercepting sound from an adjacent premises with a help of conventional microphones.

Window laser systems are able to "read" conversations from the premises by sending visible, or invisible, infrared beams to the glass and extracting the sound vibrations from the reflected rays.

The DNG-2300 generator, together with its transducers and speakers, counteracts all the above mentioned methods of listening by creating powerful, non-filterable interference on the structure of a building and within its voids. While transducers inject their generated noise into surfaces and structures, stopping the distribution of sound through them, the role of a speaker is to fill voids, cavities and ventilation shafts with audio interference to prevent leakage of sound through the air.

DNG 2300
Digital white noise generator

● **standard set**
● **DNG KIT1**

Power source	110-220 V, 50-60 Hz
Dimensions	6 x 17,5 x 25,4
Weight	2.2 kg
Output channels	2 x TRANSDUCERS 1 x SPEAKERS
Peak output voltage	12 V

TRANSDUCERS output (2)	
Max. output power	2 x 10 W
Frequency response	180-5600 Hz
Minimal impedance of load	3 Ohm
Recomended transducers	TD 2300
Max. quantity of transducers per channel	24 (light structures) 12 (solid structures

SPEAKERS output	
Max. output power	1 x 8 W
Frequency response	180-7000 Hz
Minimal impedance of load	8 Ohm
Recomended speaker	SP 2300
Max. quantity of speakers	12

SUPPLIED SET

	DNG KIT1	standard set
Noise generator DNG 2300	1	1
AC power cord	1	1
Transducer TD2300 4 Ohm	12	-
Speaker SP2300	2	-
Carry case	1	-

TD2300
vibroacoustic transducer

The TD2300 vibroacoustic transducer is part of a complete counter surveillance protection system. It inducts noise into walls, floors, ceilings, windows and other surfaces of the building, preventing leakage of sound signals. To provide a sufficient level of protection the system consists of a number of transducers installed on different structures in the room and is connected to a generator

ADVANTAGES

- Attractive design, looks good in any interior
- High power output, combined with compactness
- Fits equally well on windows, walls and other structures
- The included mounting set makes it possible to install the transducer on any surface
- Passes most of the generated noise into the desired construction in the form of vibration, while also producing less audible interference
- The frequency characteristics optimally correspond to the spectrum of human's speech
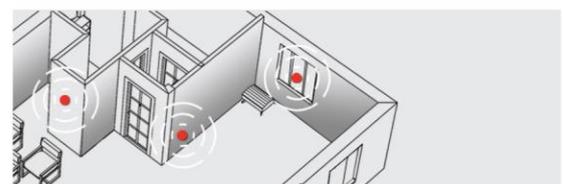- Perfectly suited for the DNG 2300 white noise generator

SPECIFICATIONS

Impedance	4 Ohm
Frequency response	58 Hz -12 kHz
Power	10W
Weight	252 g
Dimensions	56 x 27 mm

SUPPLIED SET

1 Transducer
2 Spacer
3 Bolt, double ended, M6x20 mm
4 Screw, double ended, 4x35 mm
5 Mounting disk
6 Plastic dowel 8x40 mm
**7** Wall anchor 8x23 mm

QUANTITY AND ARRANGEMENT

- **On walls** the TD2300 transducers should be installed every 2-3 meters, centered between floors and ceiling
- **On floors and ceilings** – should be installed every 6 m^2
- **On windows** – on each window pane
- **Doors** – One, placed adjacent to the center hinge on the doorframe
- **Water pipes** – on each pipe going in and out of the premises

SP2300

Omnidirectional speaker for white noise generators

White noise generators are widely used for protecting premises against acoustic leakage eavesdropping. The SP2300 omnidirectional speaker is an important component for such systems. While transducers inject their generated noise into surfaces and structures, stopping the distribution of sound through them, the role of the speaker is to fill voids, cavities and ventilation shafts with audio interference to prevent leakage of sound through the air. This creating of audio noise in the voids/cavities of premises increases the general level of protection by preventing such kinds of listening as:

- Listening with the help of a wall stethoscope placed behind the construction which is adjacent to a cavity in the room (typically from the floor above, behind a dropped ceiling)
- Leakage of sound outside the target room through voids/cavities (for example, through ventilation shafts or common holes for the pipes of a heating system)
- Placing a wired microphone in a void or cavity
- Hiding a covert surveillance device in a void or cavity
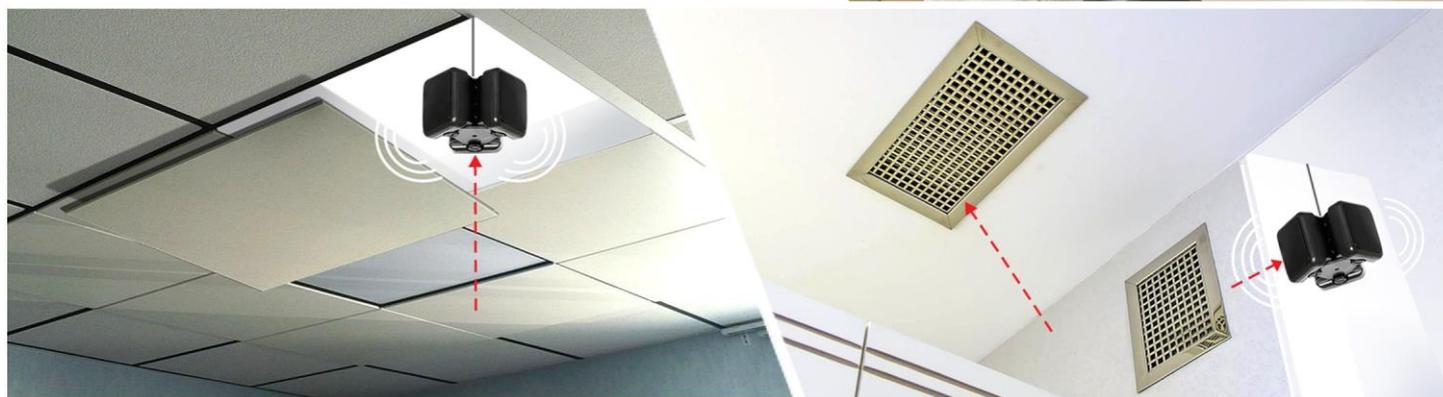
The **SP2300** speaker, when connected to a white noise generator, will create efficient interference for all the above mentioned kinds of eavesdropping. The **DNG-2300** is the recommended white noise generator for the **SP2300** as it has a separate 'SPEAKERS' output with adjustable volume and can feed up to 12 speakers simultaneously.

SPECIFICATIONS

Power output	9W (3 x 3W)
Resistance	24 Ohm
Dimensions	110x80 mm
Weight	360 g
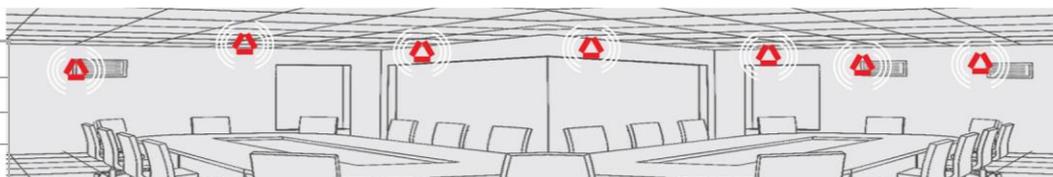
USAGE

⚠ Ventilation shafts and other voids leading outside of the protected room

Ventilation makes it possible to carry out eavesdropping without penetrating into the target zone. Sound from the target room propagates through its shafts/voids and can be picked up remotely. In some cases a wired microphone can be run within a shaft. In order to prevent such ways of leakage the SP2300 can be positioned inside voids or shafts and connected to a white noise generator. If the void is not large enough to accommodate the speaker as is, the speaker can be disassembled and placed inside without the holders.

Since the SP2300 is assembled from 3 parts, each being a separate speaker, it is possible to use the speaker parts for smaller voids. Disassemble the SP2300 by removing the triangular holder, cut the cables, place the separate speaker parts where necessary and reconnect them in the correct sequence.

▶ **Use 1 x SP2300 for each large shaft, or a disassembled speaker part for a smaller void**

⚠ Spaces behind dropped ceilings

Sound distributes in all directions; therefore, all conversations inside the target area can be easily picked up under a dropped ceiling. The most popular methods of eavesdropping are:

1) Drilling a hole down from the upper floor in order to place a wired microphone or its tube extender behind the dropped ceiling. This method is preferred over direct drilling into the room as the dropped ceiling hides all signs of work.

2) Placement of a bugging device in the space under the dropped ceiling.

The SP2300 can be placed behind the dropped ceiling in order to protect from the mentioned listening methods. If the area behind the ceiling is not separated, i.e. it is one large area, the quantity of speakers can be selected in correspondence with the following suggestion:
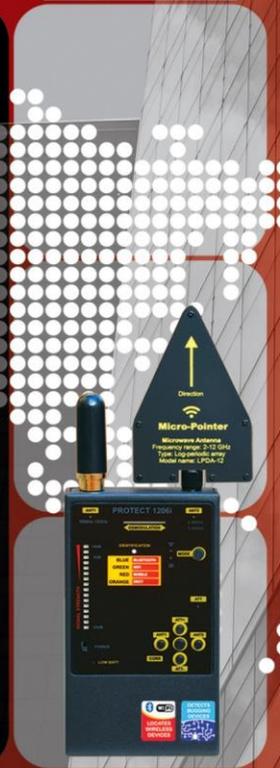
▶ **1 x SP2300 speaker for each 9-10 square meters**

SOLUTIONS
FOR COUNTER SURVEILLANCE
AND THE PROTECTION
OF CONVERSATIONS

DEALER LOCATIONS

Australia ● Belgium

Bulgaria ● Canada

China ● Czech Republic

Croatia ● France ● Finland

Germany ● India ● Korea

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