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Technical Surveillance Counter Measures
• Non-linear junction detectors
• Data Leakage Channels Detection
• Counter Espionage Devices
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Technical Surveillance Counter Measures

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Selcom Security was founded in 2007 as an integrator of wide range of TSCM, countersurveillance and anti-terrorism devices. Close relationship with manufacturers lets us provide flexible solutions to problems of any complexity at competitive price.

Our advantages:

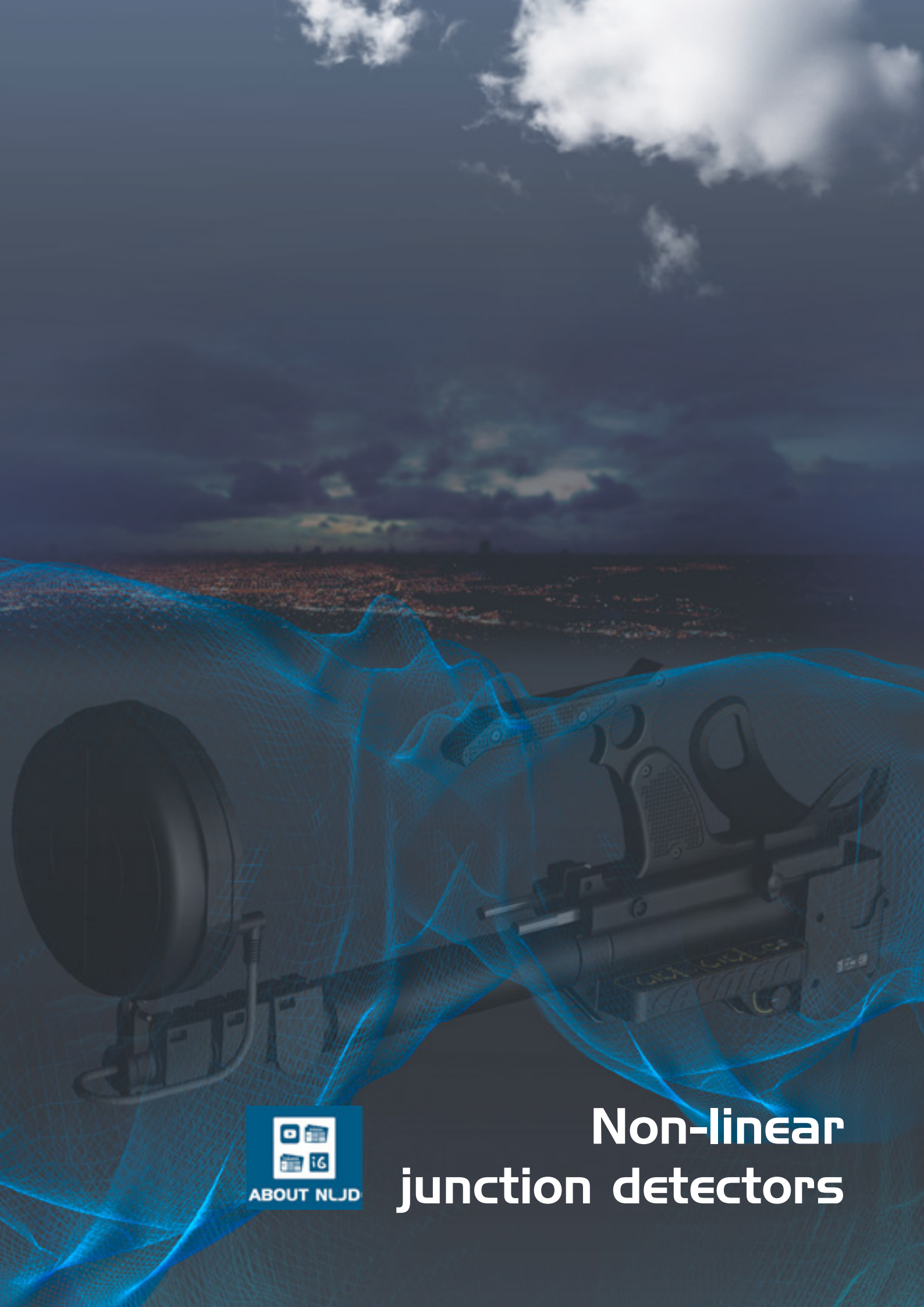
- Our store is located in European Union region allowing us to supply devices in shortest time without need of customs procedures;
- NATO Commercial And Government Entity (**NCAGE**) code **010KR** allow us to work more effectively;
- We offer training programs for groups and individuals;
- Feedback relationships with customers let us provide technical support and consultations regarding any question related to use of equipment;
- Warranty, post warranty and repair service of wide spectrum of the devices ensure solution of customers problems in shortest terms.

Information about the following devices are provided in this catalogue:

- Non-linear junction detectors (ST-402 CAYMAN, EDD-24T, EDD-24XT, Lornet-Star, Lornet-0836, Lornet-36, NL RADAR 1420, NL RADAR 1116, DT-830, DT-824S, DT-810, FJT-C-56, HW-24);
- RF detectors (ST-500 PIRANHA, SEL SP-71R RAKSA (4G/LTE), HSA-Q1, WAM-X25, PRO-W12DX, WAM-X10, PRO-SL8, CAM-GX5, DELTA X G2/12, DELTA X G2/6, DELTA S, MERLIN-MK4);
- Camera detectors (Optic-2, SEL-700, SEL-OWL);
- Wireline analyzers (ST-301 SPIDER);
- Telescopic IR Search Camera SEL IRCAM;
- Equipment for protection of confidential conversations (PROSAFE, SEL PYRAMID, SEL MINI, S1, S2, S6, SEL ULTRA, SEL ULTRA MAX, SEL OMNI TOWER, SEL OMNI TOWER MINI, SEL PANEL ULTRA MAX, SEL 08, SEL ULTRA SPEAKER, 20MJ20, INFRATORNADO, DNG-2300, SEL SUMMIT, DRUID D-06, NO SPY SEL BOX);

Full range of our products can be found on our web site **www.selcomsecurity.com**

We are open to business cooperation with companies from any part of the world!



Non-linear junction detectors

Non-linear junction detector
ST-402 "CAYMAN"

ST-402 Cayman is intended to detect and locate eavesdropping electronics, mobile phones and SIM cards or any other devices utilizing semiconductor technology. It allows detecting electronic devices whether active or not, as well as finding their exact location. It also enables one to distinguish between return signals from real semiconductors and other kind of responses, such as those coming back from corrosion or metal-oxide-metal structures.

Application

- Search for active and passive electronic eavesdropping devices;
- Detection of mobile phones and SIM cards;
- Search for other electronic devices comprising semiconductor elements;
- Checking parcels and mail for dangerous attachments containing semiconductors.

Competitive advantages

- High detection sensitivity at a low output power;
- Effective work against interference (reinforced structures, corrosion, etc.);
- Low probability of false alarms;
- Additional opportunities to identify the response provided by the analysis of signals in the "Audio";
- Ergonomic design and large telescopic bar provides maximum comfort for the operator;
- Standard replacement battery provide up to 4 hours of continuous operation. ST-402 "Cayman" comes with four batteries that can increase the uptime up to 8 hours;
- Optimum balance between price and capabilities.

Specifications

Range of radiated frequencies	2-3 GHz
Peak radiated power	less than 2W
Antenna system polarization	elliptic
Operation Modes:	Search, Audio, Adaptation
Sensitivity diapason in Search mode	40 dB (5 values with 8 dB increment)
Response indication	visual (light), sound
Power Supply	Two Li-ion rechargeable batteries 3,7 V (type 18650)
Time of continuous work from fully charged battery	from 3 to 4 hours (depending on the operation mode)
Battery charging time	Less than 3 hours
Operating conditions	
- working temperature range	+5 ... +40°C
- relative air humidity	up to 85% (at 25°C)
Weight (with batteries)	1.75 Kg
Dimensions (LxWxH)	
- when folded	510 x 145 x 130 mm
- with telescopic arm pulled out completely	1500 x 250 x 130 mm
Weight of full set in case	5.8 Kg

Non-linear junction detector
EDD-24T

The EDD-24T is a compact handheld Non-linear Junction Detector or NLJD. It will detect the presence of semiconductor circuits that are used in all modern electronic devices such as mobile phones, tracking devices, listening devices, covert cameras, digital voice recorders, SIM cards etc. Importantly, the EDD-24T will detect such devices whether they are switched on and in use, powered on but in standby mode, or even switched off without any power.

Application

- Search for active and passive electronic eavesdropping devices;
- Detection of SIM Cards, Mobile Phones, Bugging Devices, Voice Recorders, Covert Video cameras etc.;
- Search for other electronic devices comprising semiconductor elements;
- Checking parcels and mail for dangerous attachments containing semiconductors.

Features

- High detection sensitivity at a low output power;
- "Silicon" or "Metal" probability Indicator;
- Additional opportunities to identify the response provided by the analysis of signals in the "DEMOD" mode;
- Ergonomic design and low weight of 750 g provides maximum comfort for the operator;
- Machined aluminium enclosure;
- 4.5 hours of operation from one charge;
- Military grade carry case.

Specifications

Transmit Frequency	2.400 GHz to 2.425 GHz (ISM Band Type B)
Transmit Power Level	Up to +30 dBm (1 Watt)
Radiated Power Antenna	Up to +36 dBm (4 Watts) within allowable limits of ISM band (Type B)
Display	3.5 inch Colour TFT Daylight Readable
Receiver Sensitivity	Better than -120 dBm on 2nd and 3rd harmonics
Receiver Bandwidth	Approx. 10 kHz
Battery	3.7 V Lithium Polymer Internal rechargeable
Battery life	4.5 Hours (Minimum TX Power) 2.0 Hours (Maximum TX Power)
DC Charge	Micro USB Socket 5 V 1 A
Charger	Input 110/220 V Auto-switching - International Adaptors
Output	5 V DC 2 A
Audio	Internal Loudspeaker or via 3.5 mm Earphone Socket
Operating Temperature	0 to +40 °C
Enclosure	Machined Aluminium Enclosure with Plastic Antenna Cover
Weight	Main Unit 700 g with Carry Case 2.0 Kg
Dimensions	225 x 118 x 51 mm
Carry Case	Military Standard 321 x 229 x 111 mm

Non-linear junction detector
EDD-24XT

The EDD-24XT is a Portable Non-linear Junction Detector or NLJD. It will detect the presence of semiconductor circuits that are used in all modern electronic devices such as mobile phones, tracking devices, listening devices, covert cameras, digital voice recorders, SIM cards etc. Importantly, the EDD-24XT will detect such devices whether they are switched on and in use, powered on but in standby mode, or even switched off without any power.

Application

- Search for active and passive electronic eavesdropping devices;
- Detection of SIM Cards, Mobile Phones, Bugging Devices, Voice Recorders, Covert Video Cameras etc.;
- Search for other electronic devices comprising semiconductor elements;
- Checking parcels and mail for dangerous attachments containing semiconductors.

Features

- Detects all types of electronics - whether active, passive or even switched off;
- Adjustable Extension Pole – Extends from 30 cm to 140 cm;
- Adjustable Head Angle – 5 lockable positions over 90 degrees;
- Easy to operate with an intuitive user-friendly interface;
- 2.4 GHz Transmit - up to 4 Watts;
- 2nd Harmonic (4.8 GHz) and 3rd Harmonic (7.2 GHz) Receivers;
- As powerful and sensitive as much larger so called ‘portable’ units;
- Detected material Indicator ‘Silicon’ or ‘Metal';
- Will even detect the latest NANO SIM cards from up to 20 cm;
- Audible Tone and Demodulation Function through speaker or earphones;
- Battery life up to 4.5 hours; - Weight less than 900 g;
- Machined Aluminium Enclosure with Moulded Plastic Antenna Cover;
- Supplied in a compact Military-Standard Carry Case.

Specifications

Transmit Frequency	2.400 GHz to 2.425 GHz (ISM Band Type B)
Transmit Power Level	Up to +30 dBm (1 Watt)
Radiated Power Antenna	Up to +36 dBm (4 Watts) within allowable limits of ISM band (Type B)
Display	3.5 inch Colour TFT Daylight Readable
Receiver Sensitivity	Better than -120 dBm on 2nd and 3rd harmonics
Receiver Bandwidth	Approx. 10 kHz
Battery	3.7 V Lithium Polymer Internal rechargeable
Battery life	4.5 Hours (Minimum TX Power) 2.0 Hours (Maximum TX Power)
DC Charge	Micro USB Socket 5 V 1 A
Charger	Input 110/220 V Auto-switching - International Adaptors
Output	5 V DC 2 A
Audio	Internal Loudspeaker or via 3.5 mm Earphone Socket
Operating Temperature	0 to +40 °C
Enclosure	Machined Aluminium Enclosure with Plastic Antenna Cover
Weight	870 g (Main unit with extension pole fitted) 3 Kg (Carry Case fitted with all accessories)
Extension Pole	Length adjustable from 30 cm to 140 cm
Dimensions	225 x 118 x 51 mm
Dimensions incl. extension pole	Height 450 x Width 110 x Depth 47 mm
Carry Case	Military Standard 363 x 282 x 120 mm

Non-linear junction detector
LORNET STAR

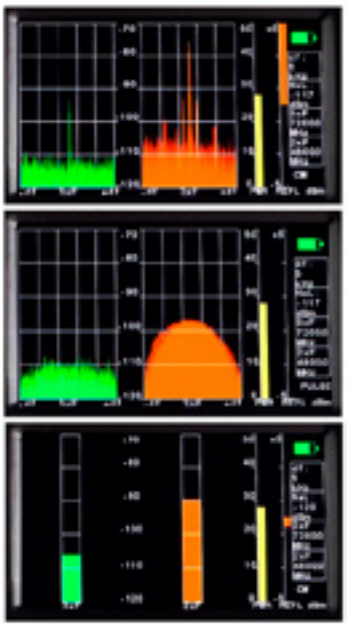
Non-linear junction detector with a spectrum analyzer of 2nd and 3rd harmonic signals of probing frequency re-emitted by a non-linear object.

Advantages

- Does not have analogues in the world;
- The operator can analyze not only the amplitude, but also the spectrum of 2nd and 3rd harmonics signals re-emitted by a non-linear object, relative to probing frequency, which increases informational content of the non-linear features of the object. In particular, that considerably facilitates decision-making on the separation of corrosive and artificial semiconductors;
- There is a built-in module measuring the reflected power of the probing signal from the research object, which allows it to estimate the extent of the reflecting surface of the object;
- Use of 3 replaceable transmit/receive units significantly reduces the probability of missing a thing at search operations providing major advantages in all three ranges:

- 800 MHz - all-weather and relatively low attenuation of signals in dense medium (brick, concrete, etc.),
- 2400 MHz - the opportunity to detect SIM cards and small (about 1 cm^2) semiconductor devices,
- 3600 MHz - providing spatial selection, which facilitates search operations in premises containing legal electronic devices;

- Time to replace transmit/receive units and extension rod will not exceed a few minutes.



Specifications

Transceiver heads	08	08s	24	24s	36m
Probing signal frequency range	800 MHz	800 MHz	2400 MHz	2400 MHz	3600 MHz
Spectrum Analyzer	no	yes	no	yes	no
The maximum power of the probing signal (peak // average):					
Pulse mode			10W//230mW	10W//230mW	18W//112mW
Continuous mode	300 mW	300 mW	300 mW	300 mW	-
Pulse mode with small duty cycle (CW)	-	-	-	-	6 W//375 mW
Receiver sensitivity	-110 dBm				
The adjustment range of the probing signal power	20 dB				
The dynamic range of the receiving path	24 dB				
Battery life at maximum power in a pulse (continuous) mode	3,0h (1,5h)	2,5h (1,5h)	3,0h (1,5h)	2,5h (1,5h)	2,5h (1,5h)
Device dimensions	40x20x7 cm	40x20x7 cm	40x20x7 cm	40x20x7 cm	40x20x20 cm
Telescopic rod size	54 x 4 x 4 (86 x 4 x 4) cm				
The full weight of the item in active state without rod	1 Kg				
Telescopic rod weight	0.2 Kg				
The bag dimensions	65 x 30 x 20 cm				
Maximum weight of the devices within the bag	3 Kg				
The operating temperature range	+5° ... +40°C				

Double Probing Frequency Non-linear junction detector LORNET-0836

Non-linear junction detector LORNET-0836 is the indispensable tool for quick and reliable detection of devices containing semiconductor components. It can be used for counter-surveilance search works in premises (covert transmitters identification), as well as for location of explosive devices outdoors.

The DPF (**double probing frequency)** technology with a patent pending antenna system places it truly apart from the competition.

Competitive advantages

- Double probing frequency operation mode gives Lornet-0836 significant advantages over single frequency NLJD since it is much better to detect small-sized and high-frequency semiconductor objects at high frequencies whereas the use of low frequencies benefits from improved detection in the wet ground and concrete walls;
- It is possible to operate in one of the frequency ranges and in both of them simultaneously;
- An embedded parabolic antenna with high gain (20 dB at 3600 MHz) enables highly precise detection of semiconductor components from a long distance (up to 10 m);
- Laser pinpointing for a space selective object localization;
- Wide power control range, automatic and manual modes of probing signal level adjustment;
- Possibility to listen to the envelope detector output as well as to the received signal level via a built-in loudspeaker and wireless headphones to evaluate parametric impacts (e.g. knocking) on the suspicious object.

Specifications

Type of probing signal	pulse
First probing signal frequency	789,5 ... 791,5 MHz
Second probing signal frequency	3581,5 ... 3607,5 MHz
Duty cycle	0,3 % and 5 %
Transmitters peak power in each frequency range	18 W / 6 W
Receivers sensitivity	<-110 dBm
Operation time with changeable battery	>3.0 / 1,5 h
Dimensions	305 x 305 x 280 mm
Weight	<1,6 Kg

Non-linear junction detector
LORNET-36

Non-linear junction detector "LORNET-36" is the irreplaceable device for carrying out operational and search activities in premises with high density of subjects containing electronic devices and also for search of small-sized electronic devices (1 x 2 cm).

The device is also effective at long distances from the subjects which is very good for analysis of suspicious subjects within safe distance.
New frequency non-overlapping with cellular phones: 3580-3620 MHz

Features

- Thanks to high frequency of probing signal and effectively implemented narrow diagram of antenna directivity "LORNET-36" is considerably better than all domestic and foreign non-linear detectors in range of detection, selection and accuracy of spatial localization of semi-conductor elements;
- Usage of SHF range allows detection of semi-conductor elements hidden by various materials (p-n junctions can be detected through the cracks, unearthed shields, through reflection from smooth surfaces, SIM-card is detected from 1 meter distance, etc.);
- Narrow beam of directivity diagram and presence of the laser pointer allows carrying out spatial selection of various semi-conductor elements with split-hair accuracy which is an extremely important characteristic of the analysis of suspicious subjects within safe distance;
- Automatic and manual changes of capacity of probing signal in pulse mode;
- Usage of the newest technologies, materials and ergonomics;
- Convenient bodies of indication and management, user-friendly, light weight;
- Electromagnetic influence on the operator is essentially lowered;
- Wireless headphones.

Specifications

Type of probing signal	pulse
Probing signal frequency	3580-3620 MHz
Receiver frequency at 2nd harmonics	7160-7240 MHz
Receiver frequency at 3rd harmonics	10740-10860 MHz
Antenna gain factor at 1st harmonics	20 dB
Antenna gain factor at 2nd harmonics	24 dB
Capacity (pulse ratio) of pulse signal	20 W (160)
Energy potential (capacity of probing signal taking into account antenna gain factor)	2000 W
Sensitivity at 2nd and 3rd harmonics (without antenna gain)	minus 110 dBm
Dynamic range	More than 40 dB
Angle of antenna directivity diagram (at 1st//2nd//3rd harmonics)	16//8//4 grade
Laser lightning of the center of directivity diagram	yes
Time of work using built-in accumulator at maximum capacity of probing signal	3 hours
Dimensions:	
at working conditions	47.7 x 30.3 x 22.7 cm
at transportable conditions	30.3 x 30.3 x 23 cm
Weight	1.4 Kg

Non-linear junction detector
NL RADAR 1420

Multi-frequency non-linear junction detector NL RADAR 1420 is designed for search for and detection of electronic devices both in active and switched off state. Multi-frequency harmonic detector searches and analyzes the 2nd and 3d harmonics at each probing frequency. A detector that uses two and more probing signals simultaneously at different frequencies is hereinafter referred to as a multi-frequency mixing detector. It can analyze products called 2nd and 3d order distortions: F1-F2 ; F1+F2: and 2F1-F2; 2F2:-F1, respectively. NL -1420 is an example of such a detector.

NL RADAR-1420 is classified as a multi-frequency harmonic detector. Probing frequencies are chosen within the range of 1400-2000 MHz. There are 4 probing frequencies with frequency space of 200 MHz. It increases the detection range greatly. Besides, a patented phase antenna array (PAA) for frequency range of 1400-2000 MHz and a patented PAA for receiving frequency of 2800-6000 MHz also increases the detection range due to high gain ratio of PAA (about 13 dB). The device consequently analyzes re-emitting signals at four frequencies and chooses a maximum response automatically. A short probing pulse of 150 ns virtually eliminates the possibility of triggering radio electronic active devices, which makes it possible to effectively search for explosive devices with a radio switch. Climatic version of IP 67 expands operational-tactical characteristic of the device.

Features

- Multi-frequency harmonic operation mode;
- Analysis of re-emitting signal from non-linear objects at frequencies: 2xF1; 3xF1; 2xF2; 3xF2; 2xF3;3xF3, 3xF4;
- Long range detection up to 10 meters;
- Small size and weight 1250 g;
- Unique design;
- Fast change of standard batteries;
- User friendly interface;
- Waterproof IP 67.

Specifications

Emitting signal type	pulse
Frequencies used	F1, F2, F3, F4 (in the range of 1400...2000 MHz)
Output power modes	10 W / 100 W
Detection angle	~ 50 °
Maximum average radiation power at frequencies F1, F2, F3, F4	not more than 0.6 W
Transmit antenna gain	at least 10 dB
Receiving antenna gain	at least 13 dB
Continuous operation time With a lithium-ion battery at a max power	~ 2.5 hours
Weight of main unit	1.25 Kg
Operating temperature	-10 ... +50 °C
Ambient pressure	450 ... 800 mm Hg
Climatic performance	IP-67 rating

Non-linear junction detector
NL RADAR 1116

Multi-frequency non-linear junction detector NL RADAR 1116 is designed for search for and detection of electronic devices both in active and switched offstate. Multi-frequency harmonic detector searches and analyzes the 2nd and 3d harmonics at each probing frequency. A detector that uses two and more probing signals simultaneously at different frequencies is hereinafter referred to as a multi-frequency mixing detector. It can analyze products called 2nd and 3d order distortions: F1-F2 ; F1+F2: and 2F1-F2; 2F2:-F1, respectively. NL-1116 is an example of such a detector.

NL RADAR 1116 is classified as a multi-frequency harmonic detector. 4 Probing frequencies are chosen within the range of 1100-1600 MHz. It increases the detection range greatly. Besides, a patented phase antenna array (PAA) for frequency range of 1100-1600 MHz and a patented PAA for receiving frequency of 2200-4800 MHz also increases the detection range due to high gain ratio of PAA (about 13 dB). NL-1116 consequently analyzes re-emitting signals at four frequencies and chooses a maximum response automatically. A short probing pulse of 150 ns virtually eliminates the possibility of triggering radio electronic active devices, which makes it possible to effectively search for explosive devices with a radio switch. Climatic version of IP 67 expands operational-tactical characteristic of the device.

Features

- Multi-frequency harmonic operation mode;
- Analysis of re-emitting signal from non-linear objects at frequencies: 2xF1; 3xF1; 2xF2; 3xF2; 2xF3;3xF3, 3xF4;
- Long range detection up to 10 meters;
- Small size and weight 1250 g;
- Unique design;
- Fast change of standard batteries;
- User friendly interface;
- Waterproof IP 67.

Specifications

Emitting signal type	pulse
Frequencies used	F1, F2, F3, F4 (in the range of 1100...1600 MHz)
Output power modes	10 W / 100 W
Detection angle	~ 50 °
Maximum average radiation power at frequencies F1, F2, F3, F4	not more than 0.6 W
Transmit antenna gain	at least 10 dB
Receiving antenna gain	at least 13 dB
Continuous operation time With a lithium-ion battery at a max power	~ 2.5 hours
Weight of main unit	1.25 Kg
Operating temperature	- 10 ... +50 °C
Ambient pressure	450 ... 800 mm Hg
Climatic performance	IP-67 rating

Thermal Imaging Non-linear junction detector
DT-830

DT-830 is a new type of thermal imaging non-linear junction detector, which integrates the functions of thermal imaging and NLJD. It can detect electronic devices hidden in walls, floors, ceilings, lamps, furniture or containers, as well as evaluate the appearance of it, what improves the efficiency of the operation.

Application

- Business Safety: Detecting unauthorized electronic devices, such as eavesdroppers, mobile phones and devices with SIM cards, hidden in company boardrooms or secret offices.
- Public Safety: Detecting electronic devices hidden or prohibited from use in safe areas, such as detonators, remote controllers, etc.
- Personal Privacy Protection: Detecting Hidden cameras and surveillance devices such as recording pens, cameras, etc. in residential buildings and hotels.

Competitive advantages

- Thermal imaging function;
- Strong Semiconductor Recognition Ability;
- Low probability of false alarms;
- Simple and intuitive interface
- High sensitivity;
- Low weight 1.56 Kg;
- Long operation time 4 h.

Specifications

Nonlinear Junction Parameters	
Transmitting Frequency range	2.404 GHz - 2.472 GHz
Receiving 2nd Harmonic	4.808 GHz - 4.944 GHz
Receiving 3d Harmonic	7.212 GHz - 7.416 GHz
Voltage	7.4 V
Pulse Mode Transmit Power (Max.)	0-4 W (EIRP)
Receiving sensitivity	-140 dBm
Receiving dynamic adjustable range	30 dB
Operation Time in Max Power Pulse Mode	4 h
Thermal Imaging Parameters	
Array format	160 x 120, continuous scanning
Pixel size	12 μm
Thermal imaging sensitivity	<50 mK (0.050 C)
FOV-horizontal	57 °
FOV-diagonal	71 °
Lens type	F/1.1
Other Parameters	
Battery type	Replaceable lithium battery
Charging time	Fast charging 2.5 hours/block
Interactive interface	Audio, LCD Display, Vibration Tips, Imaging of Objects
Detection distance	GPS module: 40-50 cm, Mobile phone: 18-22 cm
Product size	750(L) x 114(W) x 108(H) mm
Outer box size	700(L) x 330(W) x 180(H) mm
Product weight	1.56 Kg
Working temperature	-30 ... +55 ºC
Working humidity	No more than 93%, no condensate

Non-linear junction detector
DT-824S

DT-824S is a latest NLJD model of detectors series DT with latest technology and software integrated. It can detect electronic devices hidden in walls, floors, ceilings, lamps, furniture or containers, switched on or off, by display, sound and vibration.

Application

- It can be widely used in government, public security, prison, justice, army, education examination, business security and personal privacy protection, etc.
- Business Safety: Detecting unauthorized electronic devices, such as eavesdroppers, mobile phones and devices with SIM cards, hidden in company boardrooms or secret offices.
- Public Safety: Detecting electronic devices hidden or prohibited from use in safe areas, such as detonators, remote controllers, etc.
- Personal Privacy Protection: Hidden cameras and surveillance devices such as recording pens, cameras, etc. in residential buildings and hotels.

Competitive advantages

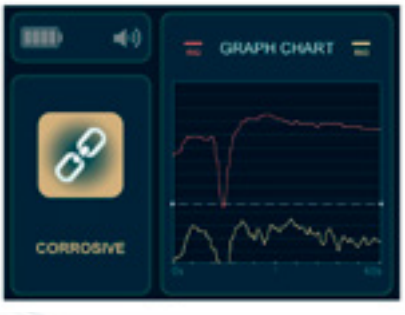
- Ultra-small size and weight;
- High detection sensitivity;
- Optimized response in false electronics indication;
- Supports harmonic amplitude time domain curves and audio analysis functions;
- Strong environmental adaptability and stable operation in various environments;
- Good ergonomic design makes it easy to hold and work in long operations.

Technological advantages

- Adopts NLJD technology to determine the degree of non-linearity of the target object;
- Adopts the harmonic time axis waveform display and audio demodulation to determine junction type of the target object;
- Utilizes high-gain, high-concentric, circularly polarized antenna to optimize performance.

Specifications

Transmitting Frequency range	2.404 GHz - 2.472 GHz
Receiving 2nd Harmonic	4.808 GHz - 4.944 GHz
Receiving 3d Harmonic	7.212 GHz - 7.416 GHz
Pulse Mode Transmit Power (Max.)	0-2 W (EIRP)
Receiving sensitivity	-140 dBm
Receiving dynamic adjustable range	50 dB
Operation Time in Max Power Pulse Mode	up to 4 h
Battery Type	Non-Replaceable Lithium Battery 4500 mAh
Charging Time	Fast Charging 3 h
Interactive Interface	Audio, LCD Display
Protection grade	IP54
LCD Display	2.4 Inch TFT Touch Screen
Product Size	212(L) x 112(W) x 70(H) mm
Outer Box Size	580(L) x 300(W) x 150(H) mm
Product Weight, main unit/full set	500 g / 2.69 Kg
Working Temperature	-30 … + 55 °C
Working Humidity	No more than 93%, no condensate



Non-linear junction detector
DT-810

DT-810 is a non-linear junction detector developed with modern advanced technology. It can detect any electronic equipment hidden in walls, floors, ceilings, lamps, furniture or containers. Whether these electronic devices are transmitting signals or not, alerted by display, vibration and sound indicators.

Application

- It can be widely used in government, public security, prison, justice, army, education examination, business security and personal privacy protection, etc.
- Business Safety: Detecting unauthorized electronic devices, such as eavesdroppers, mobile phones and devices with SIM cards, hidden in company boardrooms or secret offices.
- Public Safety: Detecting electronic devices hidden or prohibited from use in safe areas, such as detonators, remote controllers, etc.
- Personal Privacy Protection: Hidden cameras and surveillance devices such as recording pens, cameras, etc. in residential buildings and hotels.

Competitive advantages

- Extension rod;
- Automatic and manual power output control;
- Low probability of false alarms;
- Simple and intuitive OLED visual graphical interface;
- High sensitivity and accuracy;
- Low weight 1.6 Kg;
- Long operation time 5 h.

Specifications

Transmitting Frequency range	2.404 GHz - 2.472 GHz
Receiving 2nd Harmonic	4.808 GHz - 4.944 GHz
Receiving 3d Harmonic	7.212 GHz - 7.416 GHz
Voltage	8.4 V
Pulse Mode Transmit Power (Max.)	0-4 W (ERIP)
Receiving sensitivity	-140 dBm
Receiving dynamic adjustable range	30 dB
Operation Time in Max Power Pulse Mode	4 h
Battery type	Replaceable lithium battery 4 Ah
Charging time	Fast charging 2.5 hours/block
Interactive interface	Audio, LCD Display, Vibration Tips.
Detection distance	GPS module: 40-50 cm Mobile phone: 18-22 cm Sim Card: 9-12 cm
Product size	750(L) x 114(W) x 108(H) mm
Case size	700(L) x 330(W) x 180(H) mm
Product weight	1.52 Kg
Working temperature	-30 … +55 °C
Working humidity	No more than 93%, no condensate

Non-linear junction detector
FJT-C-S6

FJT-C-S6 NLJD is used for search and location of electronic devices both in active and switch-off state. The detector operation is based on the property of semiconductor components which generates a harmonics response when radiated by a microwave probing signal.

Device can automatically find the best receiving frequency channel free from interference, so it can be used in a complex electromagnetic environment. The devices have automatic power adjustment option.
Device can simultaneously detect semiconductors and metals, such as remote control, mobile phones, cameras, listening devices, transmitters and so on.
At maximum power and sensitivity mode, the range of analogue electronics detection is not less than 50 cm. Maximum distance for metal detection is 30 cm (5 g metal).

Competitive advantages

- Extension rod;
- Metal detection;
- Low probability of false alarms;
- LCD touch screen;
- High sensitivity;
- Low weight 1.6 Kg;
- Light source.

Specifications

Frequency range	2400.5 MHz - 2485.5 MHz
Signal form	Pulse duty cycle of 5%
Pulse width	500 us
Transmitter power	3.7 W (peak)
Transmitting antenna gain	7 Db
Transmitting antenna VSRW	<1.5
2nd harmonic receiver frequency	4801 MHz - 4971 MHz
2nd harmonic receiver sensitivity	-140 dBm
2nd harmonic receiver antenna gain	7 Db
2nd harmonic receiver antenna VSRW	<1.5
3d harmonic receiver frequency	7201.5 MHz - 7456.5 MHz
3d harmonic receiver sensitivity	-140 dBm
3d harmonic receiver antenna gain	7 Db
3d harmonic receiver antenna VSRW	<1.5
Power consumption	not more than 10 W
Display	LCD touch + rear-projection light source
Operating time	3 hours
Charge time	2 hours
Weight	~ 1.7 Kg
Weight when packed	~ 5.2 Kg
Limit temperature range	-20 ... +60°
Relative humidity at +25°C	not more than 80%
Size	680(L) x 130(W) x 118(H) mm
Extended size	1400(L) x 130(W) x 118(H) mm

Non-linear junction detector
HW-24

HW-24 is a unique non-linear junction detector that is notable for its compact size, ergonomic design and weight. It is highly competitive with most popular models of non-linear junction detectors. It can operate in continuous and pulse mode as well, having a variable power output.

Automatic frequency selection allows operation in complex electromagnetic environment. Operation at higher frequencies makes it in some cases more efficient than detectors with standard frequencies but with greater power output.

Competitive advantages

- Small size;
- High sensitivity and accuracy;
- Very low weight - 1 Kg;
- Operation time up to 3 h.

Specifications

Signal frequency	2400 MHz - 2483 MHz
Max. peak power of radiation in pulse mode	10 W
Maximum continuous radiation power (CW)	300 mW
The adjustment range of signal power	20 dBm
2nd Harmonic frequency	4812 MHz - 4828 MHz
3rd Harmonic frequency	7218 MHz - 7242 MHz
Receiver Sensitivity	-108 dBm
Dynamic range	80 dBm
Power supply	Built-in Rechargeable Li-battery, 3.7v, 7.8 Ah
Battery life	3 hours at max power in a pulsed mode 1 hour at max power in a continuous mode
Device dimension in operation	47(L) x 12.5(W) x 6(H) cm
Device dimension (folded)	28(L) x 12.5(W) x 6(H) cm
Device weight	1 Kg
Alarm mode	Audible and Visual (LED indicator)
Operating temperature	+5 ... +40 °C

Data leakage channels detection

Multifunctional Detection device ST-500 "PIRANHA"

Portable new generation multifunctional device ST-500 PIRANHA is designed to detect various types of active eavesdropping devices, which transmit information using radio channel, wires and infrared channel.

Features

- Detection and localization of radio transmitting eavesdropping devices;
- Identification of digital protocols of detected radio signals: GSM, CDMA, Bluetooth, LTE, Wi-Fi;
- Identification of base station signals and mobile digital communication devices;
- Detection and localization of active wired eavesdropping devices;
- Activation of electret cable microphones by applying bias voltage in-line;
- Detection and localization of eavesdropping devices, which are transmitting information in the infrared range.

FUNCTIONALLY, THE DEVICE CONSISTS OF FOUR DETECTION CHANNELS.

1. **SELECTIVE HF DETECTOR** - for detecting of analog and digital (using GSM, LTE, Bluetooth, Wi-Fi standards) radio transmitting eavesdropping devices in the frequency range of 20-6000 MHz;
2. **IR DETECTOR** - for detecting of IR transmitters (eavesdropping devices that use infrared frequency band to transmit the information);
3. **WIRED RECEIVER** - for detecting of high-frequency signals of eavesdropping devices that transmit information via power and low-current wire lines in the frequency range 100 kHz - 180 MHz;
4. **LOW FREQUENCY AMPLIFIER** - for detecting of the low-frequency signals of eavesdropping devices.

Channels

SELECTIVE RF DETECTOR:	
Operating frequency range	20-6000 MHz
Bandwidth	1,20 MHz
Scanning speed	18 GHz / sec
Minimum level of detectable signal	-70 dB
IR DETECTOR:	
Spectral range	0,75...1,1 micron
Angle of view	± 20 °
Minimum detectable power	10^{-13} W / Hz ½
WIRE RECEIVER:	
Working frequency range	0,1-180 MHz
Scan time of the whole range	2 sec
Minimum detectable signal	-50...-75 dBm
LOW FREQUENCY AMPLIFIER:	
Frequency range	20-25000 Hz
Gain control range	1, 2, 5, 10, 20, 50, 100
Maximum amplitude of the input signal	± 60 V (DC), ± 1 V (AC)

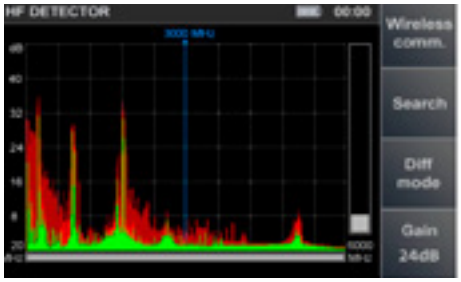
Multifunctional Detection device ST-500 "PIRANHA"

Functional capabilities

- Detection and location of radio eavesdropping devices:
1. Radio microphones, telephone radio repeaters, video cameras with radio transmitters, etc.;
- Identification of digital protocols of the detected radio signals: GSM, CDMA, Bluetooth, LTE, WiFi.
- Identification of signals of base stations and mobile digital communication devices.
- Detection and location of active wired eavesdropping devices such as: wired microphones transmitting through permanent and low current lines;
- Detection of signals from eavesdropping devices transmitting over electric mains and low current lines;
- Activation of wired electret microphones by applying a bias voltage to the circuit
- Detection and location of eavesdropping devices that utilize infrared transmissions.

ST-500 PIRANHA allows analyzing detected signals in spectrum analyzer and oscilloscope modes. The device is controlled by using a convenient 12-button keyboard. Connecting the device to a PC and using the original software significantly increases the search capabilities of the device.
The interface of the device is simple and intuitively clear. During development of ST-500 PIRANHA the long-term operating experience of previous modifications of the PIRANHA device has been taken into account.

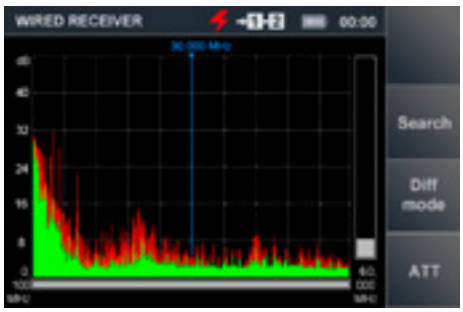
- High Frequency Receiver Panorama Mode



- Automatic Search Mode

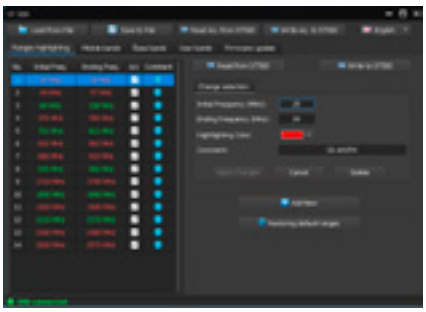
- Wireless Communication Analysis

- Wired Receiver Panorama Mode



- LF Amplifier Mode

- PC Software Support



Specifications

Power supply	built-in lithium polymer acumulator battery with voltage 3.7 V
Power consumption	<1 W
Time of continuos operation at maximum power	>4 h
Recharging time	7 h
Minimum level of detectable signal	-70 dB
Weight	0.47 Kg (main unit) 4.5 Kg (with carry case)
Dimensions	165(L) x 100(W) x 40(H) mm (main unit) 360(L) x 255(W) x 195(H) mm (carry case)

Wireline Analyzer
ST-301 "SPIDER"

Wire lines analyzer ST-301 "Spider" is designed to detect and locate eavesdropping devices, galvanically connected to power and low-current wire lines in the inspected object. The analyzer uses both passive and active modes of operation. This allows detecting eavesdropping devices which are in active or in stand-by mode at the time of a sweep operation.

Modes of operation

- LOW FREQUENCY AMPLIFIER - for detecting of the low-frequency signals of eavesdropping devices;
- WIRED RECEIVER - for detecting of high-frequency signals of eavesdropping devices that transmit information via power and low-current wire lines in the frequency range 100 kHz - 180 MHz;
- WIRED NON-LINEAR JUNCTION DETECTOR - for detecting of unauthorized galvanic connections to the cables;
- REFLECTOMETER - is intended for checking the integrity of the cable.

Channels and Specifications

LOW FREQUENCY AMPLIFIER:	
Frequency range	20-25000 Hz
Gain control range	1, 2, 5, 10, 20, 50, 100
Maximum amplitude of the input signal	± 60 V (DC), ± 1 V (AC)
Bias voltage values, V	0, ±5, ±10, ±15, ±20, ±26
WIRE RECEIVER:	
Working frequency range	0,1-180 MHz
Scan time of the whole range	2 sec
Minimum detectable signal	-50...-75 dBm
NON-LINEAR JUNCTION DETECTOR (NLJD)	
Level (amplitude) of the probing signal, V	±14
Frequency of the probing signal, Hz	60
REFLECTOMETER	
Range of distances, m	3 - 150
Power supply	
The built-in lithium-polymer accumulator	3.7 V
Operating time at the maximum power consumption	>3 h
Charging interval of completely discharged accumulator	5 h
Weight	0.47 Kg (main unit) 4.4 Kg (with carry case)
Dimensions	165(L) x 98(W) x 40(H) mm (main unit) 390(L) x 310(W) x 170(H) mm (carry case)

Wireline Analyzer
ST-301 "SPIDER"

Functional capabilities:

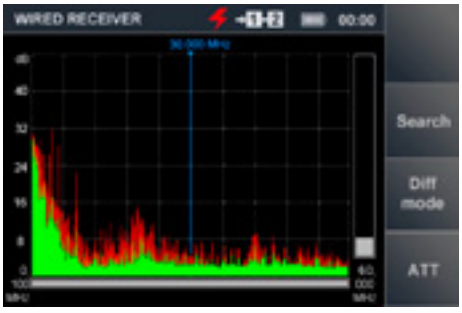
- Detection and analysis of signals from cable (dynamic and electret) microphones in low-current wire lines;
- Activation of electret cable microphones by applying an in-line BIAS voltage for their detection;
- Detection of eavesdropping devices signals, which are transmitting information via power and low-current lines in the frequency range of 100 kHz...180 MHz;
- Detection and evaluation of unauthorized galvanic connections to wire lines in the modes of non-linear junction detector and reflectometer;
- Measurement of direct and alternating voltage in the tested line.

The analyzer has an integrated electronic switch, which is designed to increase the efficiency of multi-wire cable testing.
Automatic and manual modes of electronic commutator control allow connecting all combinations of wire pairs of the tested multi-wire cable that connects to the input connector of the switch.
Automatic mode of operation and electronic commutator allow to execute the various types of measurements in all combinations of multi-wire cables pairs for several seconds.
Adapters, switches and cables, which are included in the kit, allows to connect the device to the most common types of cabling.

Use of automated mode of analyzer, in combination with electronic switch, allows to carry out various kinds of measurements on all the possible combinations of pairs of multi-wire cable in a few seconds. Adapters, couplers and cables, which are included in the ST-301 SPIDER delivery set, allows to connect the device to the most common types of wired lines.

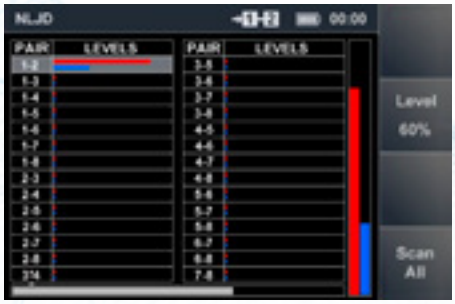
- LF Amplifier Mode

- Wired Receiver Panorama Mode



- Fixed Frequency Signal Analysis

- Non-linear Junction Detector



- Reflectormeter

- Cable integrity check-up

RF Detector – Frequency Meter
SEL SP-71R RAKSA (4G/LTE)

The device is designed to detect and locate most analogue and digital surveillance devices using radio frequencies between 40 MHz and 3.8 GHz in a near zone.

Detects

- Cellular phone of GSM, UMTS (3G), **LTE/4G** standards;
- DECT phones;
- Bluetooth and Wi-Fi devices;
- Wireless video cameras;
- Radio transmitters with analogue modulation (AM, FM, PM);
- Radio transmitters with digital modulation and continuous carrier (FSK, PSK, etc.);
- Radio transmitters with wideband modulation up to 10 MHz bandwidth.

Features

- Signal detection against the background interference;
- High speed of scanning and analyzing;
- Detection of digital, analog and wideband signals;
- Adaptation to the background noise in Monitoring Mode;
- Difference search mode;
- Audio monitoring through the built-in speaker;
- Signals frequency and level measurement;
- Alarm events log (max 200 events);
- Silent alert signal (vibration mode);
- Protective case included;
- No need for external antenna.

The device is a superheterodyne receiver with low IF and frequency synthesizer. The signal detection time is determined by the scanning and analysis cycle time for all digital, analog signals and is 3–4 seconds. Device can operate within following modes: Monitoring, Sweep, Search, Difference Search, Monitoring of Digital Signals.

Specifications

Frequency range	40-3800 MHz
Detection	GSM 850, 900, 1800, 1900 UMTS 850, 900, 1700, 1900, 2100 CDMA LTE 1, 2, 3, 4, 5, 7, 8, 12, 13, 14, 17, 18, 19, 20, 25, 26, 28, 30, 31, 34, 38, 39, 40, 41, 42, 43, 48, 53, 66, 71 DECT BLUETOOTH WI-FI
Typical sensitivity	70 mV/m
Sweep time	≤4 s
Alarm indication	Sound, vibration, LED
Dynamic range	50 dB
Bandwidth	10 MHz
Battery life in monitoring mode	4-12 h
Battery life in other modes	3 h
Display	OLED 128 x 64
Overall dimensions	77 x 43 x 18 mm
Weight	35 g
Operating temperature	+5 ... +40 °C

Handheld RF Spectrum Analyser
HSA-QI

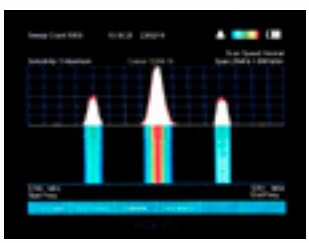
The HSA-Q1 is a fully integrated portable RF Spectrum Analyzer designed specifically for professional counter-measures use. With a frequency range of 0 to 13.4 GHz and sweep time of just half a second, it offers unprecedented performance in a truly handheld package.

Features

- Frequency Range 1 MHz to 13.44 GHz;
- Sweep time of just 0.5 seconds (Full Range);
- Spectrogram Waterfall Function for detected signal analysis;
- Tune & Listen demodulation function - AM/WFM/NFM;
- Data Logging to USB Stick with Time & Date stamp;
- Background Memory Function to compare previous sweeps;
- Very High RF Sensitivity (-80 dBm Sweep, - 100 dBm Direct Tune);
- 6" TFT Display Screen - Outdoor Readable;
- Audio through internal Speaker or Earphones;
- Multi-element custom antenna supplied;
- Internal Lithium Polymer Battery - 4 Hours Battery Life;
- Weight just 1.3 Kg;
- Machined Aluminium Enclosure;
- Supplied in Compact Military Standard Carry Case.

HSA-Q1 has been designed with the highest possible technical specification to ensure maximum detection capability and has a range of invaluable features to aid countermeasures RF detection or ‘Sweeps’. Despite its technical capability the HSA-Q1 remains easy to operate with an intuitive user-friendly interface.

HSA-Q1 features a wide 1 MHz to 13.44 GHz frequency range with a sweep time of just 0.5 seconds (faster in shorter spans) to ensure detection of all types of RF signals especially modern pulsed burst signals that can be missed by slower sweeping units.



Specifications

Detected Frequency Range	1 MHz to 13.44 GHz
Sweep time	500 ms (Full Range) down to 200 ms (Lower Range)
Waterfall Function	Real Time Colour Spectrogram
Tune & Listen Function	Direct Tune to any frequency (1 kHz Resolution) AM/WFM/NFM Demodulation via Speaker or Earphones
Background Memory Function	Record RF environment and store for later comparison
RF Sensitivity in Sweep Mode	-80 dBm Max
RF Sensitivity in Tune & Listen Mode	-100 dBm Max
Display	6” TFT Display Screen - Outdoor Readable
Data Logging interface	to USB Stick - Time and Date Stamped
Audio Output	Internal Speaker or Headphone Socket
RF Connector	TNC Jack
Antenna 1	Multi-Element 13.44 GHz - Length 220 mm x Dia. 17 mm
Antenna 2	Telescopic Whip Antenna (Low Frequency use)
Power	Internal Lithium Polymer Battery - up to 4 Hours Battery Life
DC Charge	Micro USB
Charger	110/220 V Auto-switching with International Adaptors
Enclosure	Machined Aluminium Enclosure
Weight:	1.3 Kg (Main unit)
Dimensions	Height 223 x Width 158 x Depth 45 mm
Carry Case	Compact Military Standard - L363 x W282 x H120 mm

Wireless Activity Monitor
WAM-X25

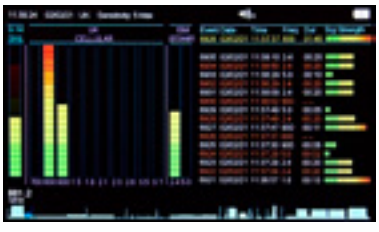
The WAM-X25 Wireless Activity Monitor is a compact tablet-style, multi-band Radio Frequency (RF) signal detector for handheld or desktop use. It is designed for detection and logging of transmissions from all types of radio frequency devices. The WAM- X25 provides complete coverage and logging of all RF activity in the surrounding area. Designed for the TSCM Professional.

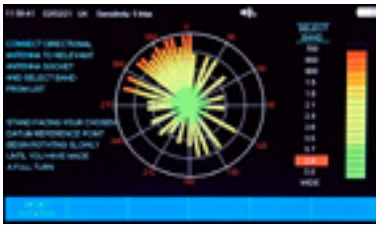
Features:

- Detects 2G/3G/4G and the latest 5G devices - plus Wi-Fi/Bluetooth/2.4 GHz & 5 GHz Devices;
- Detects Mobile Phones, Smartphones, GPS Trackers, SMS (Texts), GSM Bugs, 3G/4G/5G Video, Bluetooth & Wi-Fi Devices, Store & Forward devices;
- Worldwide Cellular Coverage - Simply select the relevant region of use;
- Separate Wideband RF Detector 0-14 GHz with Audio Demodulation;
- Separate 2.4 GHz & 5 GHz Wi-Fi Detector;
- Wi-Fi Network Analyser provides data on nearby WLAN networks;
- Bluetooth Device Analyser provides data on nearby Bluetooth devices;
- Direction Find Function for pin-pointing signal sources;
- Event Log records Time/Date, Band, Duration & Signal Strength of up to 10,000 Events;
- Log can be viewed on screen or saved to USB stick for storage/viewing on a computer;
- Graph Mode plots real time or historical graph of all detected cellular bands;
- Widescreen High Resolution 7-inch Colour TFT Display;
- Adjustable Omnidirectional & Directional Antennas;
- Machined aluminium enclosure for maximum durability.

Specifications

Wideband Frequency Range	10-14000 MHz (14 GHz)
Cellular Regions covered	UK, EUROPE, ASIA, AFRICA, N. AMERICA, S. AMERICA, AUSTRALIA
Cellular Frequency Range	International bands - (300 MHz to 6 GHz) Maximum 10 viewable bands - Sensitivity -70 dBm Max
2.4 and 5 GHz Frequency Range	2400 ... 2485 MHz and 5150 ... 5850 MHz
Wi-Fi Analyser	802.11 a/b/g/n: 2.4 GHz and 5 GHz
Display	TFT Colour 7.0 High Contrast Graphic Display
Battery	Internal Lithium-Polymer rechargeable. Operating duration with fully charged battery is up to 8 hours
Charging	Micro USB socket Charge Time 4 hours
Operating Temperature Range	15 to +50 °C, Relative Humidity 90%
Dimensions	230 x 150 x 28 mm
Weight	Main Unit 1.0 Kg, Carry Case Complete 2.7 Kg
Signal Processing and Control	RISC Based Microcontroller with real time clock
Event Log	Maximum 10000 Events
USB Socket	For USB Stick download only



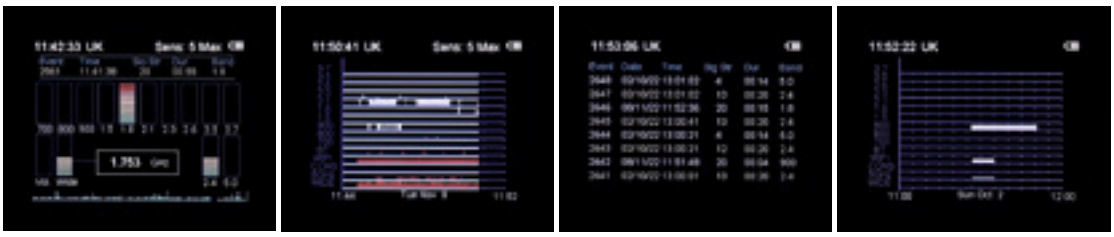


Multiband Wireless Actvity Monitor
WAM-XIO

The WAM-X10 Wireless Activity Monitor is a portable multi-band Radio Frequency (RF) detector for handheld use. It is designed for detection and logging transmissions from all types of radio frequency devices including mobile phones, smartphones, vehicle trackers, Wi-Fi Hotspots, GSM listening devices (bugs) and covert wireless 3G/4G/5G cameras. The WAM-X10 provides complete coverage and logging of all activity in the surrounding area.

Advantages:

- Detects 2G/3G/4G and the latest 5G devices - plus Wi-Fi/Bluetooth/2.4 GHz and 5 GHz Devices;
- Detects Mobile Phones, Smartphones, GPS Trackers, SMS (Texts), GSM Bugs, 3G/4G/5G Video, Bluetooth & Wi-Fi Devices, Store & Forward devices;
- Worldwide Cellular Coverage - Simply select the relevant region;
- Separate Wideband RF Detector 0-14 GHz with Frequency Counter (up to 6 GHz);
- Separate 2.4 GHz & 5 GHz band detector for Wi-Fi/Bluetooth/Video and other latest generation devices;
- Increased Sensitivity across all bands - Detects signals from up to 50 metres;
- Event Log records Time/Date, Band, Duration & Signal Strength of up to 4000 Events;
- Log can be viewed on screen and downloaded to USB stick for storage/viewing on a computer;
- Graph Mode plots real time or historical graph of all detected signals;
- 3.5-inch Colour TFT Display with easy-to-use menu driven operation;
- Adjustable hinged antennas;
- Audible Signal Strength 'Beep' and Silent Vibrate Mode;
- Machined Aluminium Enclosure for maximum durability;
- Supplied in Heavy Duty Military Standard Carry Case.



Specifications

Wideband Frequency Range	10 MHz - 14000 MHz (14.0 GHz)
Cellular Regions covered	UK, EUROPE, ASIA, AFRICA, NORTH AMERICA, SOUTH AMERICA, AUSTRALIA
Cellular Frequency Range	International bands - (300 MHz to 6 GHz) - Maximum 10 viewable bands Sensitivity -70 dBm Max
2.4 & 5 GHz Frequency Range	2400 ... 2485 MHz and 5150 ... 5850 MHz
Display	TFT Colour 3.5" High Contrast Graphic Display
Battery	Internal Lithium-Polymer rechargeable
Operating time	up to 6 hours
Charging time	4 hours
Operating Temperature Range	-15 to +50 °C - Relative Humidity <90%
Dimensions	173 x 103 x 28 mm
Weight	Main Unit - 500 g, Carry Case Complete - 2.2 Kg
Signal Processing and Control	RISC Based Microcontroller with real time clock
Event Logs	Maximum 4,000 RF Events
USB Socket	For USB Stick download only

Cellular Activity Monitor
CAM-GX5

The CAM-GX5 Cellular Activity Monitor is a handheld multiband cellular signal detector ready for the latest generation of 5G devices (as well as existing 2G, 3G & 4G), plus the latest Wi-Fi/ Bluetooth devices for detection of detect and locate transmissions from cellular mobile phone-based devices including mobile phones, smartphones, vehicle trackers, Wi-Fi Hotspots, GSM listening devices (bugs) and covert wireless 3G/4G/5G cameras.

It offers unprecedented levels of detection in a handheld unit and logs all cellular activity within range. Simply select the international region the device is being used in and the CAM-GX5 will detect signals from all the relevant cellular bands. This means the CAM-GX5 is ready for the rollout of the latest 5G devices, worldwide. Of course, all existing 2G, 3G and 4G bands will also be covered.

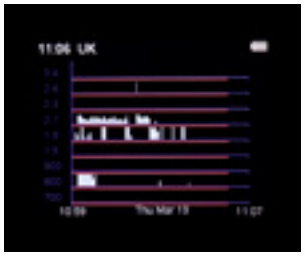
A new powerful high-gain RF front end ensures detection up to 50 meters depending on signal strength and ambient conditions. The CAM-GX5 is supplied with a new adjustable hinged antenna design for optimum performance and flexibility.

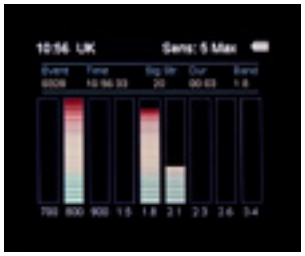
Features:

- Detects 2G/3G/4G and the latest 5G devices - plus Wi-Fi/Bluetooth/2.4 GHz and 5 GHz Devices;
- Detects Mobile Phones, Smartphones, GPS Trackers, SMS (Texts), GSM Bugs, 3G/4G/5G Video, Bluetooth & Wi-Fi Devices, Store & Forward devices;
- Worldwide Cellular Coverage - Simply select the relevant region;
- Separate 2.4 GHz & 5 GHz band detector for Wi-Fi/Bluetooth/Video and other latest generation devices;
- Increased Sensitivity across all bands - Detects signals from up to 50 metres;
- Cellular Event Log records Time/Date, Band, Duration & Signal Strength of up to 4000 Events;
- Log can be viewed on screen and downloaded to USB stick for storage/viewing on a computer;
- Graph Mode plots real time or historical graph of all detected cellular bands;
- 3.5-inch Colour TFT Display with easy-to-use menu driven operation;
- Adjustable hinged antenna;
- Audible Signal Strength 'Beep' and Silent Vibrate Mode;
- Machined Aluminium Enclosure for maximum durability;
- Internal Lithium Polymer battery pack – Charger supplied;
- Supplied in Heavy Duty Military Standard Carry case.

Specifications

Regions covered	UK, EUROPE, ASIA, AFRICA, N. AMERICA, S. AMERICA, AUSTRALIA
Detection Frequency Range	International bands - (300 MHz to 6 GHz) - Maximum 10 displayable bands
Sensitivity	-70 dBm Max
Display	TFT Colour 3.5" High Contrast Graphic Display
Battery	Internal Lithium-Polymer rechargeable Operating duration - fully charged battery - up to 6 hours
Charging	Micro USB socket - Charge Time ~ 4 hours
Operating Temperature Range	-15 ... +50 °C - Relative Humidity < 90%
Dimensions	173 x 103 x 25 mm
Weight	Main Unit - 400 g, Carry Case Complete - 1.6 Kg
Signal Processing and Control	RISC Based Microcontroller with real time clock
Event Log	Maximum 4000 Events - Cellular Log Maximum 24 Hours - 2.4/5 GHz/Wi-Fi/Bluetooth Log
USB Socket	For USB Stick download only





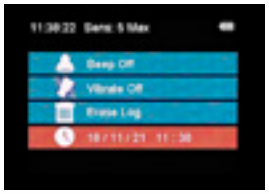
Wideband Digital Pocket RF Detector
PRO-W12DX

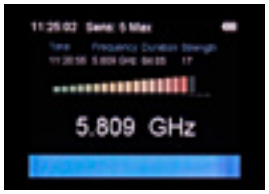
The PRO-W12DX handheld wideband RF Detector is designed to detect and locate signals from the very latest covert listening, tracking, cellular and video devices. With a completely new hardware design the PRO-W12DX packs new features that have never been seen before in a pocket handheld RF detector.

It features 0-12 GHz RF frequency range with unrivalled sensitivity particularly at higher frequencies for the growing threat from the latest super high-frequency devices. A new intelligent frequency-counter design has been implemented that can now display most digital frequencies as well as analogue signals up to an unprecedented 6 GHz.

Features:

- Ultra-wide frequency response - Now up to 12 GHz with improved top end performance;
- Frequency Counter 0-6 GHz for analogue and digital signals;
- 'Livescan' feature shows live detected signal trace;
- 1000 Event Memory Log with Time & Date records all detected Burst signals & frequencies;
- Live Graph Mode plots detected signals / frequencies over time;
- 2.5-inch Colour TFT display;
- Ultra-sensitive - even at very high frequencies;
- Two antennas - High Gain Directional antenna and Hinged Omnidirectional antenna;
- Signal Strength 'Beep' and Silent Vibrate Mode;
- Machined Aluminium Enclosure for maximum durability;
- Supplied in Heavy Duty Military Standard carry case.





Specifications

Antenna Connector	SMA Socket - 50 Ohm
Input Frequency Range	1 MHz - 12,000 MHz (12.0 GHz)
Sensitivity	100 MHz -49 dBm 200 MHz -48 dBm 500 MHz -47 dBm 1 GHz -44 dBm 2 GHz -50 dBm 5 GHz -42 dBm 10 GHz -30 dBm 12 GHz -28 dBm
Demodulation Sens. for 50mW Audio	-30 dBm (measured at 500 MHz 50% AM 1 kHz)
Audio Frequency Response	400 Hz - 5 kHz +/-2 dB
Display	TFT Colour 2.5' High Contrast Graphic Display
Battery	Internal 3.7 V 1500 mAH Li-Ion rechargeable Operating Duration - fully charged battery 8 hours Charge Time - 4 hours
Operating Temperature Range	-15 ... +50 ° C - Relative Humidity < 90%
Dimensions	146 x 80 x 24 mm
Weight	Main Unit - 250 g, Complete in Carry Case - 1.3 Kg
Signal Processing and Control	RISC Based Microcontroller
Memory	1000 Event Log - Time & Date - non-volatile memory 8-minute live graph of signal data and frequency

Countersurveillance Sweeping System
DELTA X G2/12

Delta X G2/12 is designed in a new portable format, which significantly eases the search process. System operates with a laptop, or tablet, with the help of magnetic holders. They hold the laptop/tablet reliably in all situations giving the operator the ability to move and tilt the system during sweeping. Using update rate of 3 GHz-4 GHz per second and frequency range 9 kHz – 12 GHz system can instantly detect digital signals with short bursts. System also has ability to detect and locate the transmitter simultaneously.

Features:

- Detects all kinds of RF listening devices, including analog, digital, constantly existing and intermittent, sending audio or video, with or without encryption;
- Finds devices using the digital standards GSM, 3G, 4G/LTE, 5G (<6 GHz) BT, Wi-Fi, DECT, etc.;
- Detects transmission in AC, telephone, Ethernet, alarm and other wires as well as in the Infrared range;
- Can work in instant detection mode, guarding mode, locating mode and car tracker detection;
- Real-time spectrum analysis gives the ability to detect short-burst signals such as Wi-Fi, BT or mobile devices;
- Automatic antenna selection provides high sensitivity and detection distance on all frequency bands;
- Can monitor the RF environment 24 hours a day with data logging;
- Supports storage of an unlimited quantity of signals;
- Demodulation of audio in FM, AM, USB, LSB, CW (adjustable BW 3...240 kHz);
- Alarm relay output can activate external devices upon detection of dangerous signal (CCTV system as example)

Specifications

Frequency range	9 kHz - 12 GHz
Update rate	3-4 GHz/sec
Reaction time (How quickly a dangerous signal is detected)	3 — 4 sec
Format	Handheld unit
Antenna inputs	INPUT, AUX1, AUX2
Probe input	PROBE
Occupied disk space per 24 hours	<24 Gb
Unit dimensions (without antennas)	33.5 x 26 x 6 cm
Unit weight (without laptop/tablet)	3.6 Kg
Spectrum resolution	9.8 kHz
Temperature Range	0 ... +55°C
Demands on laptop/tablet (not included in the supplied set)	i3 / AMD Ryzen 3 or higher (i5 / AMD Ryzen 5 recommended) 1 x USB 3.0/3.1/3.2 (or USB Type C) 1 x USB 2.0 (or USB Type C) RAM 8 Gb or more SSD 128 Gb or more Windows 7, 8, 10 or newer Screen 12-14"
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
Updated spectrum span	RF Sweep, Guard 24/7: broadband Signal Analyzer: displayed, selected, real-time Car Tracker Detector: mobile bands
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

Countersurveillance Sweeping System
DELTA X G2/6

Delta X G2/6 is designed in a new portable format, which significantly eases the search process. System operates with a laptop, or tablet, with the help of magnetic holders. They hold the laptop/tablet reliably in all situations giving the operator the ability to move and tilt the system during sweeping. Using update rate of 2 GHz-3 GHz per second and frequency range 9 kHz – 6 GHz system can instantly detect digital signals with short bursts. System also has ability to detect and locate the transmitter simultaneously.

Features:

- Detects all kinds of RF listening devices, including analog, digital, constantly existing and intermittent, sending audio or video, with or without encryption;
- Finds devices using the digital standards GSM, 3G, 4G/LTE, 5G(<6GHz) BT, Wi-Fi, DECT, etc.;
- Detects transmission in AC, telephone, Ethernet, alarm and other wires as well as in the Infrared range;
- Can work in instant detection mode, guarding mode, locating mode and car tracker detection;
- Real-time spectrum analysis gives the ability to detect short-burst signals such as Wi-Fi, BT or mobile devices;
- Automatic antenna selection provides high sensitivity and detection distance on all frequency bands;
- Can monitor the RF environment 24 hours a day with data logging;
- Supports storage of an unlimited quantity of signals;
- Demodulation of audio in FM, AM, USB, LSB, CW (adjustable BW 3...240 kHz);
- Alarm relay output can activate external devices upon detection of dangerous signal (CCTV system as example)

Specifications

Frequency range	9 kHz - 6 GHz
Update rate	2-3 GHz/sec
Reaction time (How quickly a dangerous signal is detected)	2 – 3 sec
Format	Handheld unit
Antenna inputs	INPUT, AUX1
Probe input	PROBE
Occupied disk space per 24 hours	<12 Gb
Unit dimensions (without antennas)	33.5 x 26 x 6 cm
Unit weight (without laptop/tablet)	3.4 Kg
Spectrum resolution	9.8 kHz
Temperature Range	0 ... +55°C
Demands on laptop/tablet (not included in the supplied set)	i3 / AMD Ryzen 3 or higher (i5 / AMD Ryzen 5 recommended) 1 x USB 3.0/3.1/3.2 (or USB Type C) 1 x USB 2.0 (or USB Type C) RAM 8 Gb or more SSD 128 Gb or more Windows 7, 8, 10 or newer Screen 12-14"
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
Updated spectrum span	RF Sweep, Guard 24/7: broadband Signal Analyzer: displayed, selected, real-time Car Tracker Detector: mobile bands
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

Countersurveillance Sweeping System
DELTA S

Delta S is powerful and easy to learn countersurveillance sweeping system, which can quickly and reliably detect all types of RF surveillance devices in the FR range up to 6 GHz, including analog, digital, working continuously or periodically, transmitting audio or video, with or without encryption bugging devices.

Features:

- Both easy to learn and a powerful sweeping system;
- Quickly and reliably detects all types of RF surveillance devices in the range up to 6 GHz, including analog, digital, working continuously and periodically, transmitting audio or video, with or without encryption;
- Finds and identifies devices which use the digital standards GSM, 3G, 4G / LTE, 5G, BT, Wi-Fi, DECT and others;
- Analyzes Wi-Fi 2.4 GHz, Wi-Fi 5 GHz, Bluetooth, “Bluetooth LE” and “Bluetooth LE Advertising” channels;
- Detects RF signal jammers on all bands, including mobile uplinks and downlinks and other;
- Spectral analysis provides high sensitivity and a long detection distance;
- The background masking feature allows to reject friendly signals such as television, radio, mobile base, etc.;
- Can be quickly adjusted to the local frequency allocation in the country of use (mobile and wireless bands);
- High-speed and wide real-time bandwidth (RTBW) provide the ability to register short-burst signals;
- Search modes include: “All Signals”, “Mobile/GPS trackers”, “Wireless/ISM”, “Downlinks/Navigation” and “Custom”, as well as two additional modes for the inspection of suspicious bands or signals;
- Two antenna inputs and built-in antenna switch provide maximum sensitivity over the entire frequency range;
- Unlimited number of logs, each can contain an unlimited history of events;
- “Threat Mark” feature shows dangerous signals on a spectrum graph;
- The audio alarm warns the user about the presence of danger with a sound of variable intensity;
- Has convenient magnetic system for attaching the laptop / tablet to the main unit;
- Other features: attenuator, hold max. danger, demodulation.

Specifications

Frequency range	57-6000 MHz
ADC resolution	12 bit
Sensitivity	-85 dB
Dynamic range	80 dB (with attenuator)
Displayed signal level	-90 … -10 dB
Real-time bandwidth (RTBW)	27 MHz
Format	Handheld unit
Platform	SDR by Analog Device
Antenna inputs	INPUT 1 - SMA, 57-2000 MHz. INPUT 2 - SMA, 2000-6000 MHz
Searching modes and time of update	All signals (~0.8 s) Mobile/GPS trackers (~0.2 s) Wireless/ISM (~0.3 s) “Downlinks/Navigation” (~0.3 s) Inspect band/signal (~0.1-0.2 s)
Visual elements (panels)	Level, Spectrum + Waterfall, Alarms
Demodulation	AM and FM with bandwidth 5, 15, 30, 100 and 200 kHz (in the range 70-6000 MHz)
Demands on laptop / tablet	i3 / AMD Ryzen 3 or better (recommended i5 / AMD Ryzen 5). 2 USB ports, one should be of SuperSpeed type (USB 3.0/3.1/3.2 or USB Type C) RAM 8 Gb or more SSD 128 Gb or more Win 8,10,11. Screen size 12...14”
Powered	by USB-port of laptop / tablet
Battery resource	1-1.5 h
Duration of work from AC	Unlimited
Displayed spectrum span	2 - 6000 MHz
Range of working temperature	5°C … +45°C / 23°F … 113°F
Dimensions of main unit	33.5 x 26 x 6 cm (without antennas)
Dimensions and weight of packaging	50 x 40 x 20 cm, 8.5 Kg
Weight of main unit with antennas	3 Kg (without computer)

Ultra-fast Scanning Spectrum Analyser
MERLIN MK4

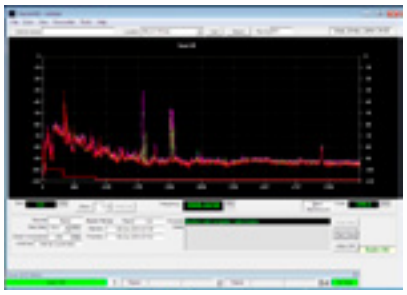
Merlin MK4 is a high-end TSCM spectrum analyser with cutting-edge design and performance. The Merlin MK4 is tailored for Technical Surveillance Counter Measures (TSCM) use and features Shearwater's own receiver. The Merlin MK4 has two quad-core computers built-in, these operate Linux for the digitiser and Windows for the scan.

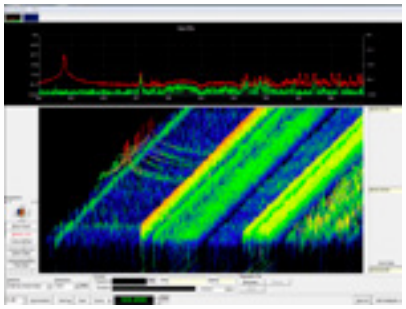
While offering rapid deployment and portability, Merlin MK4 can give an operator quick access to several tools, such as a Wi-Fi/Bluetooth spectrum monitor, SDR Demodulation and mains monitoring.
The system is based on Ethernet control, consequently is ideal for remote deployment. The Waterfall (3D and 2D) displays can be recorded and replayed and provides both time and frequency read out.

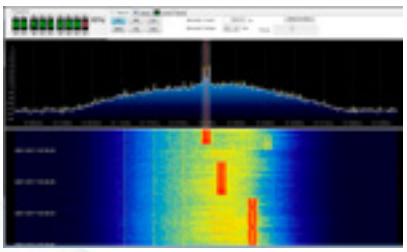
Multi-Platform. Two powerful, built-in quad core computers allows graphical user interface. The unit is supplied with a tablet and 2 External Monitors as standard.
In addition to Ethernet cable, Wireless connection is provided for rapid deployment.
The unit is both battery and or mains powered.
Analogue and Digital Video demodulation is available.
BLUETOOTH monitoring runs while scanning the RF spectrum.
ID / MAC address and real time signal provides for location of the Bluetooth device.
External Antenna can be used and a Directional hand held (or tripod mount) is included for Direction Finding.
Mains / Cable monitoring input with a switchable interface: L/N, L/E, N/E.

Features:

- Compact all-in-one unit;
- Band width up to 30 GHz;
- Acquisition Rate 52 Terahertz per second;
- Ethernet control;
- Record / Replay 3D waterfall;
- Cable or Wireless control;
- Multi-format computer control (tablet supplied as standard);
- Hot Swap Battery / Mains powered;
- Digital Video demodulation.







Specifications

Tuning Range	50 kHz to 30 GHz
Tuning Resolution	10 Hz
Signal Acquisition	52 Terahertz per second
Resolution Bandwidths (RBW):	5 kHz to 5 MHz (octave increments)
RF Input Range	+5 dBm to Displayed Average Noise Level (DANL)
SDR Demodulation Modes	AM, FM Narrow, FM Wide, USB, LSB, (USER)
SDR Demodulation Audio Recording and Playback	Yes
Simultaneous Record and SDR Demodulation:	Yes
TV Modes	PAL AM, FM Positive, FM Inverted, DVBT, Optional ATSC
Bluetooth Standard:	4.1
Bluetooth Tuning Range:	2.38 to 2.52 GHz
2.4 to 2.5 GHz Spectrum Analyzer	Real-time Bluetooth and Wi-fi spectrum display
Noise Floor typical:	-95 dBm
Dimensions Merlin unit	350 x 280 x 95 mm
Weight Merlin unit	9 Kg

Acoustically Stimulated Microphone Detector
BLOODHOUND

Developed by the designers while in Government service Bloodhound is a fully portable acoustically stimulated microphone detection system. It operates by detecting the audio signal from a microphone and subjecting it to high amplification with elaborate filtering to remove extraneous noise.

Bloodhound can be used to detect the following types of espionage attack:

Primary
- Amplified wired microphone system where the target site is wired directly to a listening post;
- Audio attack on telephone instruments;
- Audio presence on cables.

Secondary
- Radio Microphones - audio component;
- Tape recorder attacks (many types);
- Video camera surveillance (many types);
- General purpose amplification, especially on very weak and noisy signals;
- Cable tracing.

System Components
- Probe and Antenna;
- Belt-worn Filter;
- Headset;
- Power Amplifier;
- Sound Source;
- Robust Transit Case.

Features:

Bloodhound can be used in Two modes, Covert (Passive) and Overt (Active):

- Covert Mode (Passive). In this mode the operator uses the filter and headset units to listen for room noises as detected by the eavesdropping microphone. A properly conducted Covert search can be carried out in an environment with staff present and will not alert the listening post.

- Overt Mode (Active). In this mode the power amplifier is added to the system. If the probe detects a microphone the system goes into acoustic feedback and a characteristic howl is produced.

Optical camera detector
OPTIC-2

Optical camera detector Optic-2 is designed to detect and locate hidden (camouflaged in the interior) video cameras such as "pinhole", regardless of their status (on/off) and the type of video signals.

The detection method implemented in the "Optic-2" is based on the optical detection and allows to detect video cameras due to the effect of reverse reflection or "reverse blink". Upon detection of a hidden camera, you will see a green or red dot in the Optic-2 lens as a result of reflection. The detector is designed as a binocular in rubberised metal housing.

Features

- The detector allows to inspect the objects more qualitatively;
- Less stress for the operator when compared with monocular (no need to close one eye);
- The green LED light allows to detect cameras, which are protected by special filters, which are being used to bypass the detection based on red light;
- Built-in battery allows not to worry about battery cells;
- 6.5x / 8,5x zoom lets you inspect the smallest details and hardly reachable elements of the interior;
- Detector Optic-2 is safe for short-term direct illumination in the eye as laser light is not used.

Specifications

Detection range (depending on light conditions)	0.5 ... 50 m
Angle of view	6° / 7.5°
Zoom	6,5x / 8,5x
Focusing range	0,5m to ∞
Operating modes	pulse (green, red, both) / continuous (green, red)
Power supply	built in Li-ion 3.6 V battery
Type of light	22 pcs. of LED
Weight in operation/transportation	450 g / 800 g
Operating time in pulse/continuous mode	4 h / 6 h

Detector of Hidden Active Cameras and Electronics
SEL-700

SEL-700 is able to detect and locate all kinds of the active electronic devices like digital bugs, recorders, spy cameras, cellphones. Device is easy to use, has long operation time, small size and weight.

Features

- Detection Method: Superheterodyne Method;
- 8-10 hours battery life;
- Extension pole included;
- Camera lens detector included;
- Adjustable sensitivity (2 levels);
- Indication of 10 LED bar graph, beep sound or silence;
- Easy to operate;
- Weight ~ 400 g.

Specifications

Detection Method	Superheterodyne Method
Battery life	8-10 hours
Sensitivity adjustment	2 levels
Detection indication	10 LED bar graph, beep sound or silence
Weight	~ 400 g

Telescopic IR Search Camera
SEL IRCAM

SEL IRCAM uses a telescopic rod and a high-resolution 1080P infrared camera lens mounted at the end of the rod and an infrared light source integrated in the camera to clearly reflect dark environments and those inaccessible areas on the 7-inch high-definition color LCD display. Video will be changed to black and white in very low light conditions through IR light.

Features

- Low weight 1.68 Kg;
- Simple to use;
- Extension pole included;
- Carbon fiber telescopic rod;
- Sony 1/2.7 AHD sensor;
- Operative in very low light conditions;
- Large screen with sunshade cover.

Specifications

Sensor	Sony 1/2.7 AHD
Resolution Ratio	1080P
Gain Control	Automatic
Backlight compensation	Automatic
Lens	Infrared waterproof lens
Display Screen	7" 1080P HD and HB display screen
Storage	Standard 16 Gb (256 Gb maximum support)
Working voltage	12 V
Battery capacity	2600 mAh (two batteries)
Working time	Each battery lasts 3.5 hours
Carbon fiber telescopic rod length	Folded 83 cm, expanded 262 cm
Total weight	1.68 Kg
Package	Waterproof and shock resistant ABS box

Optical Wireless Lens Detector
SEL-OWL

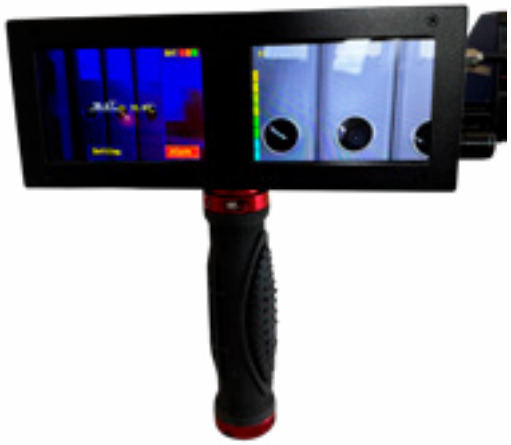
SEL-OWL is a multi-functional composite detector, that detects hidden cameras by simultaneously performing three detection methods - thermal imaging, infrared and radio wave detection.

Application

- Camera heat tracking image detection;
- Capturing hidden camera lenses with infrared light;
- Actively captures the location of illegal filming cameras through wireless radio wave detection.

Features

- Two modes of operating thermal imaging - automatic and manual.
- Detection of heat indication - alarm sound. If heat exceeds, the alarm sound beeps.
- Infrared lens detection: uses six infrared light to locate the hidden camera lens. When the camera is found, it is displayed as a white dot on the infrared camera screen. Camera can be turned off. Uses six infrared lights to locate the hidden camera lens.
- Auto focus function - the device automatically adjusts the focus upon infrared lens detection, eliminating the need for the user to manually adjust the focus.
- Radio wave detection: with a function, that detects radio waves flowing from the camera. When you get close to a device, that generates radio waves, symptoms of the RF signal rising or jumping occur.
- Long distance/long term detection: the device has a maximum detection range of within 5 meters. It can operate for 6-7 hours on a full charge. You can easily detect even large spaces.



Detects

- Wired and wireless miniature cameras;
- Coated lens, hidden lens, infrared display, Wi-Fi, Bluetooth, etc.;
- Detection of highest, lowest, and ambient temperatures;
- Radio frequency detection band 30 MHz ~ 6 GHz.

Specifications

Heat alarm detection	Sound
Infrared detection	6 infrared lights
Detection distance	Up to 5 meters
RF antenna`s frequency range	30 MHz ~ 6 GHz
Battery life	> 4 hours
Recharging time	Up to 7 hours
Voltage	5 A (USB-C)
Weight	530 g
Dimensions	225 x 215 x 105 mm

Counter espionage devices

Acoustic Safe
PROSAFE AND PROSAFE MINI

The "Acoustic Safe" system is a soundproof box with an audio generator of various noise signals, designed to block/ prevent the audio access from mobile phones/tablets, recorders, etc. (electronic devices that have a microphone) and providing complete protection against eavesdropping during meetings, conferences, confidential conversations or situations.

User-friendly: Put mobile phone in the Prosafe, switch the device on (adjust the sound level and type) and close the lid. The devices in the box don't have audio and video access to the conversation and it is not possible to record it. With the device with transparent lid, in the same time, you can hear and see if someone calls you and decide whether to accept the call or not. Thus, you don't have to leave the mobile phones outside the room, switch them off or remove the batteries.

Available modifications for Prosafe and Prosafe Mini Acoustic Safes:

- With solid lid;
- With transparent lid;
- With USB;
- With transparent lid and USB;
- With EMI shielding.

Available Color Options*

- Transparent semi-matt
- Cherry
- Mahogany
- Cognac
- Antic oak
- Black

* Please note that the color may vary due to the quality of the image and/or the monitor display settings.

Acoustic Safe
PROSAFE AND PROSAFE MINI

The purpose of the acoustic safe is to block the audio access of mobile phones/recorders/dictaphones, etc. (devices with microphone) during meetings, conferences, confidential conversations or situations where it is important to take precaution against eavesdropping via recording devices.

The Acoustic safe could also be **EM (electromagnetic) Shielded** (option).
In this case the devices in the Acoustic safe are completely blocked and they are not connected to the mobile network (they lose connection to the mobile operator network, with Bluetooth handsfree, smart watches, Wi-Fi devices).

The EMI Shielded Acoustic safe blocks all standards below:

- CDMA, 2G, 3G, 4G, 5G; upcoming 6G;
- ISM radio bands, DECT;
- WiFi- 2,4 GHz, 5 GHz, Wi-Fi 7, Bluetooth;
- It provides around 35 dB attenuation with a freq. range: 400 MHz - 6500 MHz.

Technical characteristics of the EMI Shielded safe:

- It reliably blocks the operation of all wireless channels of the mobile phones and the connection to the base stations.
- If there are powerful emitters near the safe, it is possible to get a connection with the devices inside. As the distance between the transmitter and the safe increases, the connection will be lost.
- For powerful Wi-Fi routers, the distance at which a reliable connection can be established is up to 2.5 m.
- For powerful Bluetooth transmitters - the distance is up to 1.5 m.

Specifications of PROSAFE and PROSAFE MINI

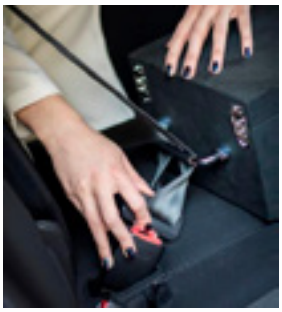
Acoustic attenuation	>= 35 dB
Acoustic jamming	>= 50 dB (inside the box)
The Acoustic generator generates several noise signals (sounds):	
White noise	2 types
Speech like noise	2 types
Metronome	2 types
Rhythmic sound with different sound frequencies	1 type
Combined	4 different noises alternating sequentially
Output power	350 mW
Loudspeaker	36 Ohm, 500 mW
Consumption at max. noise level-	no more than 35 mA
Adjusting the noise level	smoothly with control knob
External size (WxLxH):	33 x 24 x 15 cm
External size Mini model (WxLxH):	33 x 13 x 13 cm
Color	natural light wood, brown (walnut), gray, white, black, etc.
Locks	with or without
Capacity	PROSAFE - 6 phones PROSAFE MINI - 4 phones
Power supply	9 V 6F22 battery (non-rechargeable) or 12 V external power supply
Battery life (at max. noise level)	not less than 5 hrs / at minimum noise level - over 10 hrs
USB output (optional)	USB-A: 5 V/ 3 A; 9 V/ 2 A; 12 V / 1.5 A USB-C: 5 V/ 3 A; 9 V/ 2.22 A; 12 V / 1.67 A

Acoustic Safe
PROSAFE PREMIUM AND PROSAFE MINI PREMIUM

The "Acoustic Safe" system is a soundproof box with an audio generator of various noise signals, designed to block/ prevent the audio access from mobile phones/tablets, recorders, etc. (electronic devices that have a microphone) and providing complete protection against eavesdropping during meetings, conferences, confidential conversations or situations.

Available modifications for Prosafe Premium and Prosafe Mini Premium Acoustic Safes:

- **With solid lid;**
- **With transparent lid;**
- **With USB;**
- **With transparent lid and USB;**
- **With EMI shielding.**



* Please note that the lid opening system may vary

Technical Specifications of PROSAFE PREMIUM and PROSAFE MINI PREMIUM

The Acoustic generator generates several noise signals (sounds):	
White noise	2 types
Speech like noise	2 types
Metronome	2 types
Rhythmic sound with different sound frequencies	1 type
Combined	4 different noises alternating sequentially
Adjusting the noise level	smoothly with control knob
External size (WxLxH):	33 x 24 x 15 cm
External size Mini model (WxLxH):	33 x 13 x 13 cm
Capacity	PROSAFE - 6 phones PROSAFE MINI - 4 phones
Textile material	Premium durable synthetic velvet suede-like
Power supply	9 V 6F22 battery (non-rechargeable) or 12 V external power supply
Battery life	At maximum noise level not less than 5 hrs / At minimum noise level - over 10 hrs

Protection Box
S1, S2, S6

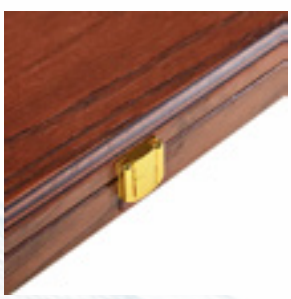
Protection Box - a simple, innocent, tool with high technological content. Developed to protect all the sensitive conversations we "produce" on a daily basis. During meetings, at the office, at the hotel, in the car, at work, with clients, colleagues, associates, alone in smart working … Confidentiality is guaranteed, by simply inserting the participants' smartphones into their security box, which is active and operational. The constant emission of artificial interference imperceptible from the outside blocks any attempt of espionage. A new way to manage your meetings, to deal with sensitive subjects, in total confidentiality, security and freedom!

Features

- An elegant small-sized box in precious wood, suitable for any smartphone model (13 x 22 x 5 cm);
- Stochastic active jamming;
- Comfortably at hand;
- Internal black velvet case to hold the Smartphone;
- Possibility on request to personalize the box with the name of the owner written by hand;
- Long battery life, up to 20 days;
- Fast charging via USB port. With 2 hours of recharge, can operate up to 96 consecutive hours.

Models

- S1 - Protection Box. Protection for one smartphone.
- S2 - Protection Box. Protection for two smartphones.
- S6 - Protection Box. Protection for six smartphone.



3-Channel White Noise Generator
DNG-2300

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.

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;
- 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.

Specifications

Power source	110-220 V, 50 60 Hz
Dimensions	6 × 17.5 × 25.4 cm
Weight	2.2 Kg
Output channels	2x for TRANSDUCERS, 1x for SPEAKERS
Peak output voltage 12V	12 V
TRANSDUCERS output (2)	
Max. output power:	2 × 10 W
Frequency response:	180-5600 Hz
Min. impedance of load:	3 Ohm
Recommended transducer:	TD2300
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
Min. impedance of load:	8 Ohm
Recommended speaker:	SP-2300
Max. quantity of speakers:	12

Vibro-acoustic Protection Kit
DNG-KIT I

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.

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;
- 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);
- 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.

Specifications

Power source	110-220 V, 50 60 Hz
Dimensions	6 × 17.5 × 25.4 cm
Weight	2.2 Kg
Output channels	2x for TRANSDUCERS, 1x for SPEAKERS
Peak output voltage	12 V
TRANSDUCERS output (2)	
Max. output power:	2 × 10 W
Frequency response:	180-5600 Hz
Min. impedance of load:	3 Ohm
Recommended transducer:	TD2300
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
Min. impedance of load:	8 Ohm
Recommended speaker:	SP-2300
Max. quantity of speakers:	12

Kit Contains

Noise generator DNG 2300	1 pc
AC power cord	1 pc
Transducer TD2300 4 Ohm	12 pcs
Speaker SP2300	2 pcs
Carry case	1

Transducer for DNG-2300
TD2300

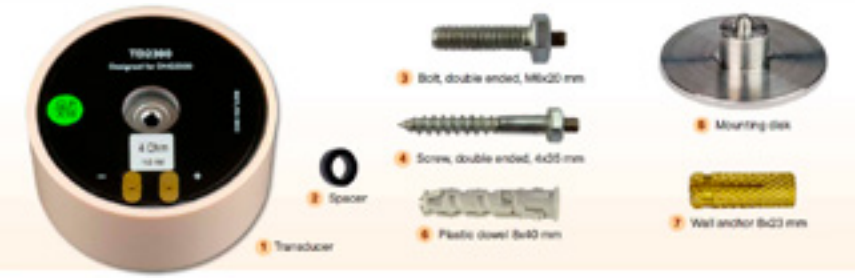
The TD2300 vibroacoustic transducer is part of a complete counter surveillance protection system. It inducts noise into walls, floors, ceilings, windows and other surfaces of the building, preventing leakage of sound signals. To provide a sufficient level of protection the system consists of a number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

Features

- 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.

Supplied set

Transducer	1 pc
Spacer	1 pc
Bolt, double ended, M6x20 mm	1 pc
Screw, double ended, 4x35 mm	1 pc
Plastic dowel 8x40 mm	1 pc
Mounting disk	1 pc
Wall anchor 8x23 mm	1 pc



Specifications

Impedance	4 Ohm
Frequency response	58 Hz - 12 kHz
Power	10 W
Weight	252 g
Dimensions	56x27 mm

Omnidirectional Speaker for DNG-2300

SP2300

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

Output power	9 W (3 x 3 W)
Resistance	24 Ohm
Dimensions	110x80 mm
Weight	360 g

Portable Speech Protection System
DRUID D-06

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, he 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 220 V or the internal rechargeable battery with a resource time of 3—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.

Features

- Professional system for protecting speech between up to 6 persons;
- One device may be connected to others in order to increase number of channels: 2 devices — 12 channels, 3 devices — 18 channels etc.;
- 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. 6 headsets included in the standard set;
- 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.

Specifications

Type of noise	Distortion + Reverberation
Number of channels	6
Power source	AC 220 V / rechargeable battery
Duration of work from internal battery	4-6 hours
Dimensions	23 x 6.5 x 17 cm

Ultrasonic Phone Box
SEL MINI

SEL MINI - a unique acoustic safe stand that serves as a speech protector for mobile phones. Its advantage is that it does not block calls, SMS, or other cellular communications.

Once a phone is placed in the SEL MINI, it automatically generates ultrasonic noise that overwhelms the phone's microphone, making it impossible to capture a clear recording. The ultrasonic interference remains inaudible to human hearing while still allowing the phone to function normally for communication. Device provides powerful protection against eavesdropping via microphones in mobile phones, dictaphones, and other smart devices. Ultrasonic noise is the most effective defense against eavesdropping, as it overwhelms the microphones, rendering all recorded sound unusable.

Features

- **Non-intrusive** - ultrasonic noise is inaudible to the human hearing and won't disrupt your meetings;
- **Broad Compatibility** - compatible with most mobile phone models;
- **Discreet Design** - resembles an ordinary phone stand.

Easy to Use

SEL MINI is fully independent and easy to operate. Simply place the stand where participants can place their phones, plug it in, and turn it on. Then, insert the phone into the SEL MINI; the stand will glow with blue backlighting, indicating that the device is fully operational. The device activates automatically when a phone is inserted — no setup is required. The stand is designed for one mobile phone.

Specifications

Weight	470 g
Dimensions	26 x 11.3 x 4.5 cm
Frequency range of acoustic noise	25 kHz ± 2 kHz
Voltage	5 V/2 A (USB-C)
Time of Active Speech Protection	Unlimited
Colours	Black/Walnut/Red

Ultrasonic Phone Safe
SEL PYRAMID

These days, maintaining conversation security is a priority. Most unauthorized call recordings are made via mobile phones. SEL PYRAMID is an innovative solution that effectively prevents such recordings, ensuring complete protection of private and confidential conversations.

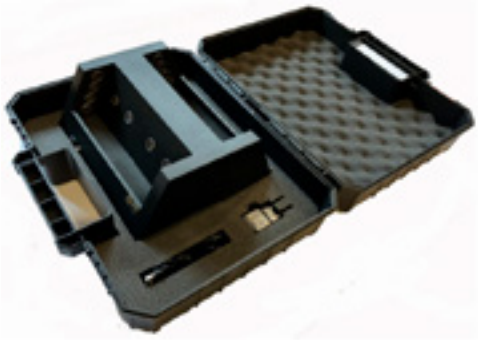
Application: SEL PYRAMID provides complete phone security against unauthorized recording of conversations made in your presence. It neutralizes SpyPhone systems, including Pegasus, ensuring the highest level of protection.
Why choose SEL PYRAMID? By choosing SEL PYRAMID, you're investing in reliable protection for your confidential conversations. Thanks to its advanced jamming algorithm and ease of use, SEL PYRAMID is the ideal solution for any company or individual concerned about the security of their information. The manufacturer guarantees that the device will jam all microphones within its range, making SEL PYRAMID an indispensable tool in the fight against unauthorized recordings. Ensure peace of mind and security during every meeting with SEL PYRAMID.

Features

- Unique jamming algorithm: SEL PYRAMID generates a specially selected noise combination, developed by the manufacturer, that effectively disrupts all microphones. This ensures conversations remain safe;
- No impact on phone performance: The device only interferes with the microphones, without affecting the functionality of the phone itself. The phone can still work if needed;
- Indispensable during confidential meetings: Thanks to its audio properties, the SEL PYRAMID jammer becomes an indispensable element of every conference room, office or place where important conversations are held.

Specifications

Power supply:	3.7 V with charging system
Capacity:	Up to 4 phones
Operation time on battery power	up to 20 hours
Number of ultrasonic emitters	12 on each side
Dimensions	22 x 11 x 22 cm
Weight of main unit:	1 Kg
Weight of complete carry case:	1.9 Kg



Ultrasonic Phone Box
SEL SUMMIT

Obviously mobile phones have an infinite number of benefits for communication and business; however, they also create certain threats of information leakage. One of the potential leakage channels is the phone's microphone being able to pick up surrounding acoustics with a high sensitivity. The SEL SUMMIT has been developed by information security professionals to protect against this exact type of threat. SEL SUMMIT is a small size portable microphone jammer to protect confidential speech information during conversations.

Features

- Blocks the microphone of the phone with the help of non-filterable ultrasonic interference;
- Efficiently prevents surround recording apps from capturing conversations and sounds;
- Suppresses both the bottom and upper microphones of the phone by creating two-side interference;
- Up to 4 phones can fit inside;
- Inaudible frequency of interference has been optimally selected for the best performance and affects all existing models of smartphones;
- Made with the design of an attractive natural wood stand;
- The acoustically isolated phone can remain close to the owner where the screen can be easily observed;
- The phone stays online and available for incoming calls;
- No illegal radio jamming;
- Can be powered by the external USB, or from the built-in rechargeable battery;
- Has 2 sensors, increasing the battery's resource: the device starts producing interference when a phone is inserted (IN USE sensor) and a conversation is present (ACTIVE sensor);
- Is compatible with all types of phones (max. height 180 mm).

Specifications

Type of interference	Ultra sound, inaudible frequency
Power of noise	<2 W in the active area
Dimensions (width x height x depth)	262 x 78 x 82 mm
Compatible phones	Height up to 180 mm
Weight	600 g
Power	USB 5 V Built-in rechargeable battery
Current consumption	500 mA (noise mode) 6 mA (stand-by mode)
Battery	Li-Ion, 3.7 V, 6800 mAh
Connector	USB Type C
Battery resource	> 10 hours
Recharging time	12 hours
Sensors	IN USE, ACTIVE
Indicators	BATT, ACTIVE, IN USE
Capacity	Up to 4 phones
SUPPPLIED SET	SEL SUMMIT device USB Type C cable User manual

Jammer of microphones and audio recorders
SEL ULTRA MAX

SEL ULTRA MAX is a unique and effective ultrasonic device used to protect classified information, based on special algorithm of generating of the digital ultrasonic jamming signal. Device effectively protects confidential conversations, conferences, business conferences and secret meetings against eavesdropping and recording with any voice recorders.

SEL ULTRA MAX is characterized by solid construction and simplicity of use. The briefcase is not opened, and the access code is only a visual addition. It is a device dedicated to businessmen who care about the discretion of any conversations or business negotiations.

Application

Device effectively blocks wiretaps, voice recording and microphones in a distance from 1 to 30 meters, such as:

- microphones in cell phones;
- digital recorders of the sound with the built-in microphone or the microphone on the cable;
- professional digital dictaphones of the type : EDIC-the mini, Gnome, Olympus, Papyrus...;
- dictaphones built-in in Smartphones of the type: **iPhone 15 PRO MAX**, HTC, SONY, LG, SAMSUNG...;
- radio microphones, microphones of recorders audio-the video;
- microphones of cameras, bugging microphones;
- professional dictaphones hidden in cards to ATMs;
- older and newer dictaphones, recorders in the metal-housing.

Ultrasonic Jammer SEL ULTRA MAX also prevents leakage of the information by means of bugging analog, digital, optical and seismic wiretaps. Jammer is built in into the elegant briefcase, one can him freely and conveniently carry.

Features

- Type of work: proprietary algorithm for generating interference using a digital ultrasonic signal;
- The radio remote control turns on and off;
- Charging and battery status indicator;
- Quiet operation - does not emit an audible and troublesome sound;
- Simple operation and use.

Specifications

Max range: depending on the type of voice recorder, wiretapping	1-30 meters
Directionality	horizontal and vertical planes 80°
The built-in effective battery + the power supply	110-230 V
Battery life	8-9 hours
Maximum continuous operating time	3 hours, break time 30 minutes
Charging time	8 hours
Remote control	switching on/off, the range ~ 40 meters
Wireless remote control	work frequency 433.92 MHz in the ISM band
Weight	7,5 Kg
Operating temperature	0° ... +40°C (32-104 Fahrenheit)
Dimensions	L45,5 cm x H38 cm x T12 cm

Jammer of microphones and audio recorders
SEL OMNI TOWER

SEL OMNI TOWER is a unique and effective ultrasonic device used to protect classified information, based on special algorithm of generating of the digital ultrasonic jamming signal. Device effectively protects confidential conversations, conferences, business conferences and secret meetings against eavesdropping and recording with any voice recorders.

Application

SEL OMNI TOWER effectively blocks wiretaps, voice recording and microphones in rooms with size of approximately 30-40 m², such as:

- microphones in cell phones;
- digital recorders of the sound with the built-in microphone or the microphone on the cable;
- professional digital dictaphones of the type : EDIC-the mini, Gnome, Olympus, Papyrus...;
- dictaphones built-in in Smartphones of the type: **iPhone 15 PRO MAX**, HTC, SONY, LG, SAMSUNG...;
- radio microphones, microphones of recorders audio-the video;
- microphones of cameras, bugging microphones;
- professional dictaphones hidden in cards to ATMs;
- older and newer dictaphones, recorders in the metal-housing.

Ultrasonic Jammer SEL OMNI TOWER also prevents leakages of information by means of bugging analog, digital, optical and seismic wiretaps. The product is used for stationary work in rooms on a conference table, desk, etc.

Features

- Type of work: proprietary algorithm for generating interference using a digital ultrasonic signal;
- The radio remote control turns on and off;
- Charging and battery status indicator;
- Quiet operation – does not emit an audible and troublesome sound;
- Simple operation and use.

Specifications

Max range: depending on the area	30-40 m²
Directionality	in the horizontal plane 360° in the vertical plane 105°
Operating frequency	23-260 kHz
The built-in effective battery + the power supply	110-230 V
Battery life	3 hours
Maximum continuous operating time	3 hours, break time 30 minutes
Charging time	5 hours
Remote control	switching on/off, the range ~ 20 meters
Wireless remote control	work frequency 433.92 MHz in the ISM band
Weight	5 Kg
Operating temperature	0° ... +40°C (32-104 Fahrenheit)
Dimensions	height 37 cm x diameter 16 cm

Jammer of microphones and audio recorders
SEL OMNI TOWER MINI

SEL OMNI TOWER MINI is a unique and effective ultrasonic device used to protect classified information, based on special algorithm of generating of the digital ultrasonic jamming signal. Device effectively protects confidential conversations, conferences, business conferences and secret meetings against eavesdropping and recording with any voice recorders.

Application

SEL OMNI TOWER MINI effectively blocks wiretaps, voice recording and microphones in rooms in the distance of 1-3 m² such as:

- microphones in cell phones;
- digital recorders of the sound with the built-in microphone or the microphone on the cable;
- professional digital dictaphones of the type : EDIC-the mini, Gnome, Olympus, Papyrus...;
- dictaphones built-in in Smartphones of the type: **iPhone 15 PRO MAX**, HTC, SONY, LG, SAMSUNG...;
- radio microphones, microphones of recorders audio-the video;
- microphones of cameras, bugging microphones;
- professional dictaphones hidden in cards to ATMs;
- older and newer dictaphones, recorders in the metal-housing.

Ultrasonic Jammer SEL OMNI TOWER MINI also prevents leakages the information by means of bugging analog, digital, optical and seismic. The product is used for stationary work in rooms on a conference table, desk, etc.

Features

- Type of work: proprietary algorithm for generating interference using a digital ultrasonic signal;
- The radio remote control turns on and off;
- Charging and battery status indicator;
- Quiet operation – does not emit an audible and troublesome sound;
- Simple operation and use.

Specifications

Jamming distance	1-3 m²
Directionality	in the horizontal plane 360° in the vertical plane 85°
Operating frequency	23-260 kHz
The built-in effective battery + the power supply	110-230 V
Battery life	1 hour
Maximum continuous operating time	3 hours, break time 30 minutes
Charging time	3 hours
Remote control	switching on/off, the range ~ 20 meters
Wireless remote control	work frequency 433.92 MHz in the ISM band
Weight	2 Kg
Operating temperature	0° ... +40°C (32-104 Fahrenheit)
Dimensions	height 12 cm x diameter 16 cm

Jammer of microphones and audio recorders
SEL PANEL ULTRA MAX

SEL PANEL ULTRA MAX is a unique and effective directional ultrasonic device used to protect classified information, based on special algorithm of generating of the digital ultrasonic jamming signal. Device effectively protects confidential conversations, conferences, business conferences and secret meetings against eavesdropping and recording with any voice recorders.

Panel can be placed on a desk or hung on the wall. It is a device dedicated to business people who care about the discretion of any conversations or business negotiations in offices or conference rooms.

Application

Device effectively blocks wiretaps, voice recording and microphones in a distance from 1 to 10 meters
such as:

- microphones in cell phones;
- digital recorders of the sound with the built-in microphone or the microphone on the cable;
- professional digital dictaphones of the type : EDIC-the mini, Gnome, Olympus, Papyrus...;
- dictaphones built-in in Smartphones of the type: **iPHONE 15 PRO MAX**, HTC, SONY , LG, SAMSUNG...;
- radio microphones, microphones of recorders audio-the video;
- microphones of cameras, bugging microphones;
- professional dictaphones hidden in cards to ATMs.

Ultrasonic Jammer SEL PANEL ULTRA MAX also prevents leakages of information by means of buggings analog, digital, optical and seismic wiretaps. The jammer is designed for stationary indoor applications.

Features

- Type of work: proprietary software for generating digital ultrasonic jamming signal;
- The radio remote control turns on and off;
- Operation indicator;
- Quiet operation - does not emit an audible and troublesome sound;
- Simple operation and use.

Specifications

Max range: depending on the type of voice recorder, wiretapping	1-10 meters
Directionality	horizontal and vertical planes 90°
Power supply	mains adapter 110-230 V
Maximum continuous operating time	3 hours, break time 30 minutes
Remote control	switching on/off, the range ~ 20 meters
Wireless remote control	work frequency 433.92 MHz in the ISM band
Weight	2 Kg
Operating temperature	0° ... +40°C (32-104 Fahrenheit)
Dimensions	L43 cm x H33 cm x T3,5 cm

Jammer of microphones and audio recorders
SEL 08

SEL 08 is a small size portable microphone jammer for personal use that helps protect confidential audio information during conversations in indoor meetings, outdoors or inside the car. It can be easily and quickly installed inside a car, on or under a conference room table, or built into a briefcase or purse. Despite its small size, SEL 08 is a highly effective jamming device, producing a complex jamming signal in the ultrasonic band above the point of human hearing.

Array of 8 high quality ultrasonic transducers controlled by a microprocessor achieving the best possible jamming efficiency and making any microphone recorded speech signal unintelligible to listen to.

Application

Device effectively blocks wiretaps, voice recording and microphones in a distance from 0,5 to 4 meters such as:

- microphones in cell phones;
- digital recorders of the sound with the built-in microphone or the microphone on the cable;
- professional digital dictaphones of the type: EDIC-the mini, Gnome, Olympus, Papyrus...;
- dictaphones built-in in Smartphones of the type: i**Phone 15 PRO MAX**, HTC, SONY, LG, SAMSUNG...;
- radio microphones, microphones of recorders audio-the video;
- microphones of cameras, bugging microphones;
- professional dictaphones hidden in cards to ATMs.

Features

- Type of work: proprietary software for generating digital ultrasonic jamming signal;
- The radio remote control turns on and off;
- Charging and battery status indicator;
- Quiet operation - does not emit an audible and troublesome sound;
- Simple operation and use.

Specifications

Max range: depending on the type of voice recorder, wiretapping	0,5 - 4 m
Directionality	horizontal and vertical planes 85°
Power supply	built-in internal accumulator Li-ion / the power supply 5 V/110-230 V
Maximum continuous operating time	4-5 hours, break time 30 minutes
Battery life	4-5 hours
Charging time	3 hours
Remote control	switching on/off, the range ~ 20 meters
Wireless remote control	work frequency 433.92 MHz in the ISM band
Weight	0,5 Kg
Dimensions	L20 x H12 x T4 cm
Operating temperature	0° ... +40°C (32-104 Fahrenheit)

Jammer of microphones and audio recorders
SEL ULTRA SPEAKER

SEL ULTRA SPEAKER is a modern microphone jammer, which is using high-quality ultrasonic transducers controlled by a microprocessor, integrated into a common ceiling speaker case and intended for installation above desks and tables in meeting rooms.

Device is an effective jamming device, producing a complex jamming signal in the ultrasonic band above the point of human hearing. A system of high-quality ultrasonic transducers controlled by a microprocessor that achieves the best possible jamming efficiency and makes any recorded conversation impossible to playback. Due to jammers ceiling mounting position, a multipath propagation effect is created, which reflects the generated noise from surfaces and items, further increasing the suppression area and efficiency.

Features

- Type of work: proprietary software for generating digital ultrasonic jamming signal;
- Easy to use control: can be turned on/off via presence of power in the power supply line;
- The radio remote control turns jamming noise off and on;
- Quiet operation – does not emit an audible and troublesome sound;
- Simple operation and use;
- Easy mounting spring brackets.

Application

Device effectively blocks wiretaps, voice recording and microphones in a distance of ~ 3 meters such as:

- microphones in cell phones;
- digital recorders of the sound with the built-in microphone or the microphone on the cable;
- professional digital dictaphones of the type: EDIC-the mini, Gnome, Olympus, Papyrus...;
- dictaphones built-in in Smartphones of the type: **iPhone 15 PRO MAX**, HTC, SONY, LG, SAMSUNG...;
- radio microphones, microphones of recorders audio-the video;
- microphones of cameras, bugging microphones;
- professional dictaphones hidden in cards to ATMs.

Specifications

Max range: depending on the type of microphone	~ 3 m
Directionality	horizontal plane 120°
Power supply	the power adapter 15 V/110-230 V
Maximum continuous operating time	4-5 hours, break time 30 minutes
Remote control	switching on/off, the range ~ 20 meters
Wireless remote control	work frequency 433.92 MHz in the ISM band
Mounting hole diameter	190mm, mounting template included
Operating temperature	0° ... +40°C (32-104 Fahrenheit)
Set includes	jammer, power adapter, remote control (2pcs)

Jammer of microphones and audio recorders INFRATORNADO®

Infratornado® is an innovative device in the field of information security. Based on the system to generate jamming signals dynamically changing (variable) in the time. Effectively protects against eavesdropping and recorders. Protect confidential conversations, meetings, business conferences and secret meetings against eavesdropping.

Application

Infratornado® effectively blocks most of the different listening devices the average distance of about 0,5...3 meters, such as:

- Cassette recorders, older mobile phones such as: Nokia, Samsung,...;
- Analog recorders with built-in microphone or a microphone on cable;
- Digital audio recorders that can be found on the market;
- Professional types digital voice recorders: EDIC-mini, Gnome, Olympus, Gnome DR, Papyrus...;
- Smartphones, including iPhones, HTC, Sony, LG, SAMSUNG, iPad...;
- Wireless microphones, microphones, audio and video recorders;
- Microphones wireless cameras, microphones bugs;
- Professional digital voice recorder in the Bank card;
- Older and newer recorders and recorders in a metal housing.

Jammer Infratornado also prevents leakage of information through wiretaps analog, digital and stethoscopes. The product is camouflaged in a briefcase and has the ability to be stationary and mobile.

Features

- Type of work: system generates jamming signals, which are dynamically changing (variable) in the time;
- Silent: for most people practically inaudible from a distance of one meter from the device);
- Automatic disconnection from the external power supply when the battery is fully charged;
- Simple operation and maintenance.

Specifications

Directionality generators:	
horizontal plane	60°
in a vertical plane	60°
Power supply	built-in battery or AC adapter 110-230 V
Operating time with built-in battery	up to 6 hours
Charging time	6 hours
Weight	7 Kg
Operating temperature range	0° ... +40°C (32-104 Fahrenheit)
Size	L44 x H33 x T10 cm

Jammer of microphones and audio recorders
20MJ20

The 20 MJ-20 is a highly effective ultrasonic jammer. It is designed to protect confidential information during meetings and conversations. It generates a unique ultrasound signal that blocks the microphones within the range of the device without interfering in the conversation. When turned on, the jammer virtually blocks the operation of any device with microphone and which are designed to record or transmit an audio signal. Such devices are: Mobile phones, dictaphones, audio recorders, wired and radio microphones used for eavesdropping, video and audio-conferencing systems, GSM microphones, etc.

In order to improve the efficiency of the device, there are several unique solutions:
1. Generating a special signal covering a wide frequency range and affecting different types of microphones;
2. Operation on two different frequencies in order to increase the distance of impact and overcome possible measures to counteract the jammer;
3. Ability to operate several devices in a room without going into antiphase, which would lead to periods of reduction or cessation of the jammer's effectiveness;
4. Control of up to 4 devices with one remote. The Ultrasound jammer is a set of two separate jammers that could work individually (separately) or synchronously. One of the jammers works at 25 kHz and the other at 33 kHz. Several jammers operating at 25 kHz only (respectively at 33 kHz) can be used simultaneously.

Each of the transmitters has a power supply, built-in batteries, built-in control buttons and remote control. The jamming range depends on the type of the microphone and its design. The optimal microphone jamming is from 0.5 to 2 meters. Highly sensitive microphones can be blocked at 12 meters distance or more. These are the microphones of the top models of mobile phones from various brands. The transmitters can work separately as a stand-alone jammer. The best effect however is when they work together. Based on our experience however we would recommend using two sets - one set on the table, the second one under the table.

Controls:
- Manual control - buttons and light indicators for switching on/off, noise and battery level;
- Remote control - switching on/off, range ~ 40 meters.

The set includes:

- Ultrasonic Jamming device - 2 pcs.
- Power supply 5 V - 2 pcs.
- Remote control - 2 pcs. The remote control can be programmed to work with up to 4 devices.
- Warranty - 12 months.

Specifications

Operating frequency	25 kHz, 33 kHz
Directional diagram	60° horizontal and vertical
Wireless remote control	433.92 MHz frequency in the ISM band
Power supply	220 V AC and 12 V DC built-in batteries
Operation time with battery	up to 7 h
Weight of one ultrasonic device with batteries	0,9 kg
Size of one device	203 x 158 x 65 mm

Multifunctional noise generator MNG-06

MNG-06 is a small, compact, highly efficient and multifunctional noise generator, which aims to neutralize eavesdropping and hidden audio recorders, as well as to help detecting such.

The device generates several types of sounds, each of which is used for different TSCM activities:

- **White noise** - 2 types

Purpose: to block the microphones and ensuring confidentiality of the conversations / meetings. Frequency-optimized white noise generated by the Acoustic safe covers all frequencies of the human voice.

- **Speech like noise** - 2 types

Purpose:
1. To block the mics and ensuring confidentiality of the conversations/ Speech like noise generated by the Acoustic safe covers all frequencies of the human voice.
2. Evaluation the sound permeability through various barriers and protections.

- **Metronome** - generates sharp rhythmic sound with different octaves - 2 types.

The use of the Metronome sound mode is recommended together with TSCM devices that in addition to the spectrum analyzer have also oscilloscope - it monitors the similarity between the metronome clicking sound and the oscillation of the oscilloscope graph.

Purpose:
1. To evaluate the sound permeability through various barriers and protections.
2. To activate VOX (voice activated) microphones.
3. To assess the relevance of intercepted radio signal to the sounds in the inspected room.

- **Octave (rhythmic)** - sound with different sound frequencies - 1 type.

Purpose:
1. To assess the permeability of sound through different barriers (walls, pipes, air ducts, etc.) and protections. When the lid is open and the Acoustic safe is switched on and set to sound Octave mode, it could be checked with different microphones or to be heard without any special equipment (naked ear) if the different sounds (frequency ranges) pass through the barriers or through the wiring installation or air ducts, pipes, windows, etc.
2. Search hidden activate VOX (voice activated) microphones. Using Octave sound mode activates the VOX microphones because it creates sounds in a wide frequency range. In addition, the sound is easily recognizable at possible detecting and hearing the sound from a radio microphone.

If required up to 6 external piezo elements (transducers) can be connected. Piezoelectric elements are normally stuck on the window glass or installed on the room wall, pipes or air ducts. Very efficient transfer of audio frequency noise vibrations ensures much higher noise on the target surface then any vibrations produced by conversation in a room.

- Wall - each piezo element cover 1,5 x 1,5 m frame on the wall;
- Windows - each window or 1,5 x 1,5 m frame;
- Each pipe / air ducts.

Specifications

Output power	350 mW
Loudspeaker	36 Ohm, 500 mW
Consumption at max. noise level	no more than 35 mA
Adjusting the noise level	smoothly with control knob
Switching between different types of sounds	by pressing the VOLUME knob
External power supply	12 V
3,5mm jack for external transducers (piezo elements)	optional
Power	9 V 6F22 non-rechargeable battery or NiMH accumulator battery in battery holder
Battery charge time	16 hours
Battery life (at max. noise level)	not less than 4 hrs / at minimum noise level - over 8 hrs
Low battery indication	below 7,3 V
Size of the box	123 x 88 x 29 mm
Build-in protections	- Self-discharge protection (batt. discharge via PCB or the external power supply) - Short circuit protection - Protection against reverse polarity of the external power supply or the battery

Data Cut-out Filter System
NO SPY SEL BOX

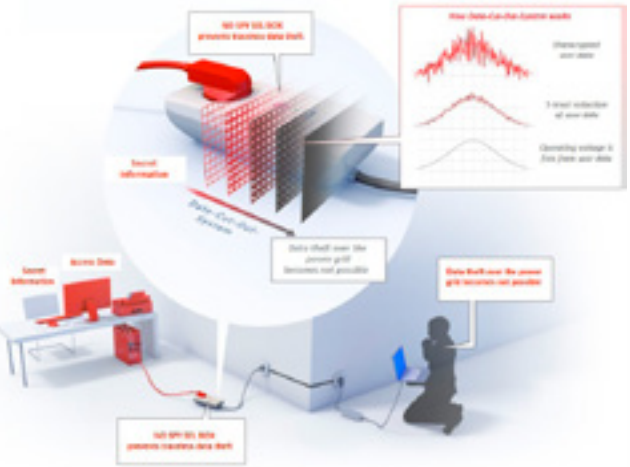
NO SPY SEL BOX prevents the uncontrolled flow of data to the power network. With the especially developed DCO (data cut-out) filter system, the patented NO SPY SEL BOX makes all data transmitted over the supply cable of IT equipment unusable for data thieves and intelligence services. Data cannot be read or reconstructed after DCO filtering. No conclusions can be drawn regarding the content or structure of the data.

As easy to use as a multiple socket outlet. Simply connect the mains plug of the NO SPY SEL BOX to a conventional wall socket and the mains plugs of the IT equipment to the NO SPY SEL BOX. The NO SPY SEL BOX replaces conventional multiple socket outlets. Plug and play. No software installation required. Information security can be significantly improved with reliable IT hardware protection through the uncomplicated and effective deployment of the NO SPY SEL BOX – from the home office to confidential workstations.

Features

- Special multiple socket outlet with filtering and three isolated ground receptacles for 230 VAC/50 Hz;
- Reliable, maintenance-free network separation for the secure operation of IT components, especially in sectors like Public authorities, Finance and Banking, Healthcare, e.g. (hospitals, health insurers, doctors) Notary's offices and lawyers, Auditors and tax consultants, Fiscal authorities, Insurance companies;
- Asymmetrical minimum insertion attenuation of 60 dB in the FR range of 100 kHz to 1 GHz (50 Ohm system);
- Special housing structure to suppress unwanted radiated coupling in the higher frequency range between the filter input and output side;
- Thermally optimised overall design without noise producing fan;
- Fixed, shielded supply cable, 2 m in length, with special two-pin earthed plug;
- Conformity according to CE, EU RoHS Directive and EC Reach Regulation;
- Number of sockets: 1, 3, 5, 8.

IT Hardware weakness attracts data thieves as there are many ways for data thieves and intelligence services to gain access to computer networks unnoticed. In addition to new opportunities, the increasing flexibility of the digital working environment also creates new hazards in the handling of data and the use of mobile IT hardware. Power network lines are a point of attack as digital data thieves access the building network through existing outlets in adjacent rooms or even on other floors of the building.



Specifications

Maximum continuous power *Total current of all isolated ground receptacles	16 A at up to +35°C; 8 A at up to +55°C
Operating voltage	230 V/50 Hz and 110 V/60 Hz
Leakage current (With no connected load at 50Hz)	< 3,5 mA
Insertion loss (Asymmetrical on 50 ohm system in 100 kHz-1GHz frequency range)	≥ 60 dB
Protection class	IP20
Connecting cable length	2.0 m
Housing	Alu colourless anodised, satin gloss
Weight including cable	Approx. 4,1 Kg (for unit with 5 sockets)
Dimensions (WxHxD)	447.3 x 70.9 x 108.5 mm (for unit with 5 sockets)

Counterterrorism facilities

Parametric Detector
DT-880

DT-880 parametric detector is a device, which adopts RF technology to detect suspicious mechanical displacement device in target area. The device can detect electronical and mechanical detonating timing devices under various packaging coverings. Electronic detonating device might include devices made of electronic watch, pager and various remote-control devices.

Detector supports local and remote listening functions. You can use it to cooperate with UAV & robot to realize remote control and distortion free listening function. It is convenient for the investigation of remote operation on explosive initiation device in the scene of security inspection and explosive disposal. At the same time, the detector can be used as in TSCM field in order to detect hidden electronic eavesdropping devices. It has the features of high sensitivity, long detection distance, strong penetrability, easy to carry and operate.

Application

Used for security inspections in public safety, anti-terrorism, explosion-proof, military, airports, metros, ports and other security needed environments.

Features

- High positioning accuracy: the product adopts radio frequency audio detection technology, with the characteristics of high-precision positioning;
- Long-range listening without distortion: it supports remote undistorted listening with UAV and robot;
- Low noise: adopt built-in nondestructive sound detection technology and noise cancellation technology restores the original sound realistically;
- LCD displays sound waveform (4x settings of wave time display, 1s, 2s, 5s, 10s);
- Ready to use: easy to operate and available after startup;
- Long standby time: low power consumption, 20 hours of operation;
- High reliability: support IP67 protection level.

Specifications

Working voltage	3.7 V
Antenna polarization	Circular
Screen	LCD
Noise reduction earphone	Noise reduction capability ≥- 20 dB
Remote listening function	Supported
Operation time under max consumption	≥ 20 hours
Battery type	Lithium battery
Working temperature	-30 … +55°C
Store temperature	-40 … +70°C
Protection level	IP67
Detection distance	Mechanical watch ≥ 2.5 m
	Mechanical alarm clock ≥ 0.5 m
	Electronic timing devices ≥ 0.5 m
	Digital display timer ≥ 0.5 m
Penetration Mechanical watch	100 mm polyethylene foam + 200mm A4 paper(70g)
Penetration Mechanical alarm clock	100 mm polyethylene foam + 200mm A4 paper(70g)
Penetration Electronic timing devices	100 mm polyethylene foam + 200mm A4 paper(70g)
Penetration Digital display timer	100 mm polyethylene foam + 200mm A4 paper(70g)
Product dimension	(209 mm x 132 mm x 154 mm) ± 5 mm
Transit case dimension	(410 mm x 290 mm x 268 mm) ±10 mm
Product weight	0.96 Kg ± 0.05 Kg
Working humidity	≤ 93%

SELCOM security

Contacts

Europe

JSC SELCOM SECURITY
Office No 525, 5th floor,
Silutes pl. 2,
Klaipeda 91111,
Lithuania

Phone +370 46 441353
Mob. +370 655 08288; +370 655 08286
Fax +370 46 412231
E-mail: info@selcomsecurity.com
Website: www.selcomsecurity.com