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Technical Surveillance Counter Measures

- Non-linear junction detectors
- Data Leakage Channels Detection
 - Counter Espionage Devices
 - Counterterrorism Facilities



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Technical Surveillance Counter Measures

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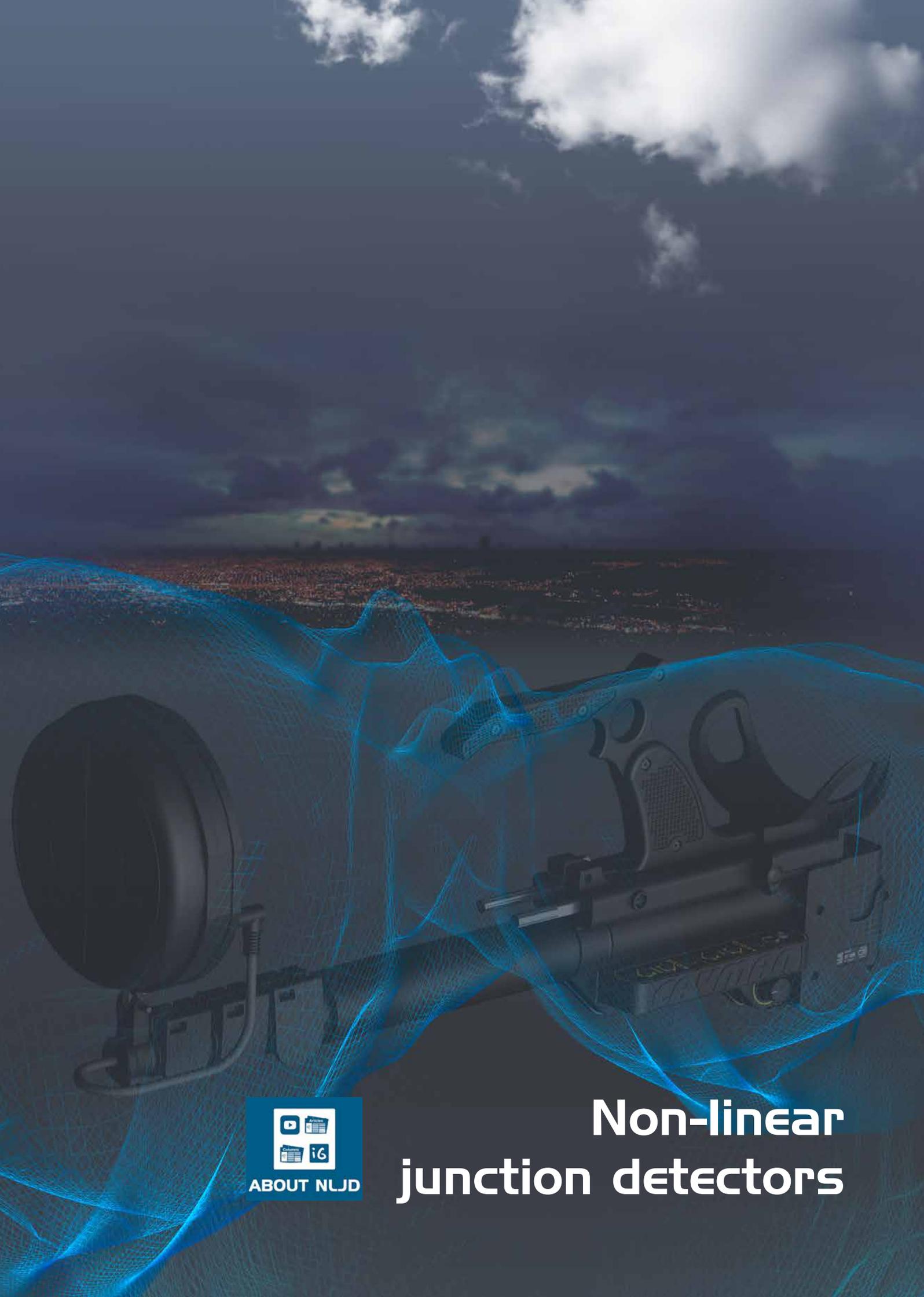
STR was founded in 2003 as a manufacturer of physical security equipment, and an integrator of a wide range of counter-surveillance and anti-terrorism devices. We can provide flexible solutions to problems of any complexity, at a competitive price.

Our advantages:

- We are based in Canada, allowing us to supply devices quickly, often without complex procedures, as Canada prides itself on good relationships with most of the countries in the world;
- NATO Commercial And Government Entity (NCAGE) code **010KR** allow us to work more effectively;
- We offer training programs for groups and individuals;
- We operate based on client feedback, and provide technical support and consultations regarding any questions related to the use of our equipment;
- Warranty, post warranty and repair service of wide spectrum of the devices ensure solution of customers' problems in shortest possible times.

Information about the following devices is provided in this catalogue:

- Non linear junction detectors
- RF detectors frequency counters;
- Wireline analyzers;
- Equipment for protection of confidential conversations;
- Communications signals suppressors



Non-linear junction detectors

■ Non-linear junction detector **NEW!** ST-65

ST-65 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 provides up to 4 hours of continuous operation. ST-65 comes with four batteries that can increase the uptime up to 8 hours;
- Optimum balance between price and capabilities.



Specifications

Range of radiated frequencies	2-3GHz
Peak radiated power	less than 2W
Antenna system polarisation	elliptic
Operation Modes:	Search, Audio, Adaptation
Sensitivity diapason in manual mode	40dB (5 vales with 8dB 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 (lengthxwidthxweight)	
-when folded	510x145x130mm
-with telescopic arm pulled out completely	1500x250x130mm
Weight of full set in case	5.8 kg



■ Non-linear junction detector **NEW!** ST-66

ST-66 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, small weight and compact size;
- Standard replacement battery provides up to 4 hours of continuous operation. ST-66 comes with four batteries that can increase the uptime up to 8 hours;
- Optimum balance between price and capabilities.



Specifications

Range of radiated frequencies	2-3GHz
Peak radiated power	less than 2W
Antenna system polarisation	elliptic
Operation Modes:	Search, Audio, Adaptation
Sensitivity diapason in manual mode	40dB (5 vales with 8dB 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)	0.85 kg
Dimensions (lengthxwidthxweight)	340x130x160mm
Weight of full set in case	3.7 kg



Double Probing Frequency Non-linear junction detector SL-440

The SL-440 non-linear junction detector is an indispensable tool for quick and reliable detection of devices containing semiconductor components. It can be used for counter-surveillance search works on 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.



Non-linear junction detectors

Competitive advantages

- Double probing frequency operation mode gives the SL-440 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 head phones 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	40 W / 20 W
Receivers sensitivity	<-110 dBm
Operation time with changeable battery	>3.0 / 1,5 h
Dimensions	305 mm x 305 mm x 280 mm
Weight	<1,6 kg

■ Non-linear junction detector SL-46

The SL-46 non-linear junction detector is an indispensable device for carrying out operational and search activities on premises with high density of subjects containing electronic devices and also to search for 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 the SL-46 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, simple in work, light weight.
- Electromagnetic influence on the operator is essentially lowered.
- Wireless head-phones.

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	47.7x30.3x22.7cm
at transportable conditions	30.3x30.3x23 cm
Weight	1.4 kg

■ Non-linear junction detector SL-46 MINI

The SL-46 non-linear detector is indispensable when conducting search operations in premises where the items containing electronic products are located with high density. It is also useful when searching for small electronic devices (1x2 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

- Considering the parameters of detection range, selection and the accuracy of spatial localization of semiconductor devices at the distances of up to 2 metres away from the technical characteristics of the device fully correspond to the SL-46 specifications.
- The application of SHF range provides the unique opportunities to detect semiconductor elements hidden by different materials (it detects through cracks, unearthed screens, reflections from smooth surfaces, SIM card is detected at the distance of 1 meter, etc.).
- Both narrow beam of directional pattern and laser pointer make it possible to conduct spatial selection of various semiconductor devices with high accuracy in safe distance.
- Control and indication of operation is carried out in the same way as in the SL-01, SL-26 and SL-46 (including automatic and manual changes in power of the probing signal in pulse mode). Significantly reduced
- electromagnetic impact on the operator because of high duty ratio of the probing impulses and significant reduction of undesirable radiation towards the operator.
- The device has convenient display, control elements and light weight.

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)
Sensitivity at 2nd and 3rd harmonics (without antenna gain)	-110 dBm
Dynamic range	More than 40 dB
Angle of antenna directivity diagram (at 1st harmonics)	16 degrees
Laser pointer	yes
Operational time at max. output power	3 hours
Dimensions:	
in operational shape	52x25x14 cm
transportational shape	27x25x14 cm
Operational weight	less than 1 kg
Operating temperature	+5... +40°C



■ Non-linear junction detector SL MARK

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



Competitive 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 cm²) 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

Probing signal frequency	2400 MHz, 800 MHz (optional), 3600 MHz (optional)
Type of probing signal	pulse / continuous
Output power (pulse/continuous)	10W / 0,3W
Sensitivity for 2nd and 3d harmonics	at least -110 dBm (-140 dBW)
Dynamic indication range of 2nd and 3rd harmonics	more than 40 dB
Manual power adjustment range	20 db
Operating temperature	+5... +40°C
Height	52 cm or 112 cm (with extension rod)
Width	18 cm
Thickness	6 cm
Weight	1 kg
Power supply	rechargeable battery
Battery life at max. output power	Pulse 3h / continuous 1,5 h

■ Non-linear junction detector SF-600DF "HAWK"

The SF-600DF "Hawk" is designed for detection of mines and explosive devices with electronic fuses (activation system) concealed on the ground surface, slightly in the ground (snow), under the road pavement and within various facilities.

Detects

- Communicational transmitters and receivers as well as alarm and remote control system facilities;
- Electronic and electromechanical timers;
- Acoustic, magnetic, optoelectronic sensors and midget TV cameras;
- Built-in metal-ware as well as hidden machinery and appliances;
- Domestic electronic units and alpine skiing in snow traps.



Application

- Roads, terrain and objects inspection for mines, improvised explosive devices (IED) and other explosive appliances with electronic components;
- Searching for hidden caches with weapons, ammunition, explosive devices and communication facilities;
- Questioned items investigation, searching for subversive and terrorist devices and arrangements.

Advantages

- Extended detection range;
- Electronic facilities localization in any operational mode: active, 'stand-by' or even switched off installed behind walls, fences, etc.;
- Equipment design allows its usage in tactical airborne missions;
- Efficient use in search/reconnaissance missions;
- High searching rate;
- Safe to handle, user-friendly design;
- Extended continuous operational time without battery replacement;
- Long-term operation facility in field conditions.

Specifications

Probing signal	Pulse
Receiver	2-channel (2nd and 3rdharmonic)
Output power	(average / peak) 0.15W / 200W
Indication:	
- visual	LED-display
- audio	Headphones
Power supply	Ni-Cad battery, 6V/7Ah
Start-up time	not more than 5min
Continuous operation time with one fresh battery (under normal environmental condition)	not less than 8h
Operation temperature range	-30°C...+50°C
Weight (ready for operation/in standard packing)	5.1kg / 12.0kg

■ Non-linear junction detector SR-500

Application

- Searching for various electronic devices that contains semi-conductor components;
- Mobile phone and SIM card detection;
- Electronic components of remote control improvised explosive device (RC IED) investigation in urban environment under strong interference condition;
- Eavesdropping device and other unauthorized electronic appliance detection and localization.

Features

- Affective radiated power (ERP) not less than 700W
- Precise target space localization along with high operational efficiency;
- Detects RC IED at the same distance as the 'Hawk' field NLJD does, resistant to a strong interference condition of urban areas;
- Radio-electronic device detection behind reinforcing building structure;
- Assured small target detection in various medium including that with high humidity;
- Single-block ('bullpup' type) design: no connectors or cables, antenna fixed on adjustable telescopic bar, lighting of inspected zone, efficient both for premises and terrain.



Specifications

Modulation	AM-pulse
Output power (average) in searching mode	not more than 200mW
Operational modes	General search, 20K
Detection range:	
SIM (UIM) card	not less than 0.5m
Mobile phone	not less than 1m
RC IED	up to 10m
Precise probing signal output adjustment	Up to -15dB in 1dB step
Power supply	Li-Ion rechargeable battery, 7.4 V
Continuous operation time with fully charged built-in rechargeable battery (under normal environmental condition)	not less than 4 h
Weight in ready-for-operation state	not more than 2.2kg

■ Non-linear junction detector SR-800A



The SR-800A is designed to search for eavesdropping device and similar electronic appliances detection in premises (radio microphones, microphone amplifiers, voice recorders, etc.). Electronic units' detection in any operational mode: active, stand-by or switched of building structures inspection as well as furniture and other domestic article compatible with airport electronic & communication equipment recommended for questioned items primary control by airport security service.

Features

- The last representative of the famous SR-800 NLJD family;
- Unbeaten power potential budget - 173dB, extended tuning facilities, outstanding noise immunity, in particular to whatever cellular communication signals - all that ensure its' high efficiency in any operating conditions;
- Easy-to-use, up-to-date ergonomic design, high quality reliable units and components.

Specifications

Output power:	not less than 180W / 0.2W
- pulse / average	
- envelope separation mode (20K)	not less than 30W
Probing signal power attenuation	8dB, one stage
Receiver sensitivity (under 6dB signal/ noise ratio)	not worse than -150dBW (-120dBm)
Input signal attenuation	10dB x 5 steps
Antenna, polarization	directional, circular
Indication:	
- audio	headphones
- visual	4-line LCD
Target localization accuracy	not less than 0.1m
Power supply	built-in Li-Ion battery
Continuous operational time	not less than 4h
Weight (ready for operation / in standard packing)	3.7kg/9kg

■ Non-linear junction detector SR-800S

The SR-800S non-linear junction detector is designed to detect mobile phones, electronic eavesdropping devices and search for improvised explosive devices, equipped with electronic control systems in complex urban development and the availability of electronic interference.

Application

- Identify mobile phones;
- Search for improvised explosive devices (IED electronic control systems) on the background of a complex man-made interference from urban development;
- Detection of electronic eavesdropping devices.

Features

- New Nonlinear locator SR-800S, providing sensitivity better than "minus" 140 dBm;
- The original solution of the receiving channel provides the ability to analyze the fine structure of the reflected signal;
- For the first time realized the possibility of identifying and selecting the methods of nonlinear active electronic locating purposes against electronic jamming devices;
- Modular design solution provides the ability to use as a compact "pistol" version and a "rifle" by providing take-out antenna on the full post.



Specifications

Modulation type	Pulse-amplitude
The average power of the microwave signal in the search mode	Not more than 400mW
Receiver sensitivity	Not worse than -140dBm
Continuously adjustable output power of the probe signal	to -9dB in 3 dB
Detection range:	
- mobile phone	Not less than 2 meters
- IED with remote control	More than 10 meters
Battery	Li-ION accumulator 7,4V
Continuous operation time on internal battery	At least 2 hours
Curb weight of the device (with battery)	Not more than 1,2 kg

■ Non-linear junction detector SR-800V

The SR-800V is a professional sweep device designed for inspection of constructional elements of building and interior objects in the premises with any security level and complexity. The device is applied for detection and localization of covert electronic devices in different operational modes: in a transmission mode, switched off or in stand-by mode (for remote controlled devices).

Application

- Building structures inspection as well as furniture and other domestic articles;
- Eavesdropping device and similar electronic appliances detection in premises (radio microphones, microphone amplifiers, dictaphones, etc.);
- Electronic units detection in any operational mode: active, stand-by or switched off.



Features

- The unique "IDENTIFICATION" mode provides the increased probability of reliable identification of electronic devices among oxidised metal items and metal-to-metal contacts;
- The expanded range of flooding signal power adjustments provides possibility for accurately selecting of irradiated energy within localisation of the detected target;
- All operational modes are controlled by wireless control panel via radio frequency channel;
- The antenna head display shows all service information for the convenient visual scanning of detection results.

Specifications

Transmitter frequency	848 MHz
Output power:	
In sweep mode:	peak pulse 100W [+50 dBm], average continuous 0,07 W [+19 dBm]
- signal's curve extraction mode (20K)	average continuous 0,3 W [+25 dBm]
Control range of output power	21 dB (step 3dB)
Modulation:	amplitude/pulse
-sweep mode	(duty cycle 1330)
-20K mode	(duty cycle 57)
Receivers frequencies	1696 MHz, 2544 MHz
Sensitivity (with digital processing)	not less than -150 dBW [-120 dBm] (at S/N ratio -6 dB)
Attenuator levels	-10, -20, -30,- 40,-50 dB
Antenna polarization	circular
Main lobe angle	not more than 40°
Continuous operation time in sweep/20K mode	5/4 h
Power	6V [2 battery packs]
Audio output	tonal signal (400 Hz)
Display	2x16-dot LED scale (resolution 2,5 dB)
Operating temperature	+5...+40°
Dimensions in a case	485x390x140 mm
Weight (ready for operation / in standard packing)	3,5 kg / 6.5kg

■ Non-linear junction detector SR-T

The SR-T is a professional non-linear junction detector designed for examination of the places for detainees or prisoners and inspection of their personal belongings.

Application

- Search for electronic means of communication (SIM cards, miniature audio-recording devices, cell phones, radio stations) in places where their usage is prohibited (places of pre-trial detention, detention institutions);
- Identification of means of communication (cell phones, radio transmitters) and other electronic devices, regardless of whether the electronic target is radiating, would it be wired, switched to stand-by mode or even switched off.

Features

- Effective detection of small targets (SIM cards, miniature electronic devices);
- Increased interference immunity to the response from building structures and elements of interior (MOM structures);
- Additionally strengthened mountable plug connections, additional measures taken for protection against moisture and corrosion for severe operational conditions;
- Lighter and higher capacity battery, which is built in the transceiver unit, extends continuous operation time without changing the power source;
- Special pouch for placing the equipment on the operator's body.



Specifications

Output power (average)	0.2 W
Receiver sensitivity	Not worse than -125 dBm
Display audible / visual	Acoustic emitting device / LED display
Target localization accuracy	Not worse than 0.1 m
Power supply	Autonomous Li-Ion battery
Operating time	Not less than 4 hours
Operational weight	no more than 2.2 kg

■ Non-linear junction detector SR-M

The SR-M non-linear junction detector is designed to detect concealed electronics like radio-mikes, RC IED executive units that contain semi-conductor elements, audio-video recording devices as well as cellular phones and their SIM cards.



Application

- Detector can detect typical targets in every operational mode: active, stand-by or even switched-off.
- Detector ensures an effective targets searching and their reliable localization in light building structures (walls, floor, ceiling), furniture and various home appliances.
- Detector provides its operator with an opportunity to discriminate between industrial electronic elements that are the basic parts of legal appliances as well as eavesdropping devices ('bugs') and metal-to-metal contacts, so called 'corrosion diodes'.

Specifications

Output pulse duration in 'Search' mode	0,9...1,1 ms, with 100±5 ms period
Transmitter pulse output power in 'Search' mode	3...6 W
Transmitter output power in '20K' mode	3...6 W
Receiver channels sensitivity under 10dB s/n ratio	Up to -120 dBm
Receiver input signal attenuation	3 steps
Received signal indication:	
- visual	LED display
- audio	Wired or wireless headphones
Continuous operation time in 'Search' mode with 2 sets of rechargeable cells	Not less 8 hours
Detector in a ready for operation mode	2,7 ±0,3 kg
Complete set in standard packing	5,6 ±0,5 kg
Operational weight	no more than 2.2 kg

■ Non-linear junction detector SR-DSP

Application



- Detection of prohibited electronic devices (including voice recorders, mobile telephones, SIM-cards, digital memory devices), as well as firearms;
- Detection of improvised explosive devices (IED electronic control systems) in hand luggage and on the “operator’s” body, in THE complex technogenic interference from the city environment;
- Detection of covert eavesdropping electronic devices.

Features

- Absolute safety (sanitary-hygienic certificate);
- Accurate detection of ultra miniature electronic devices, which are problematically detected by metal detectors;
- Confident detection of small-sized targets in a wide range of embedding environments (including wet environments);
- Precise identifications at fast rate of sweep;
- Single body construction, no detachable connections or cables.

The device allows to detect:

- SIM (UIM) card – up to 0,5 meter.
- Mobile phone – up to 1 meter.



Specifications

Type of modulation	Pulse-amplitude modulation
Mode of operation	“Search”
Average output power in search mode	Not more than 200 mW
Power supply	2 Soshine batteries 18650 3,7 V
Operation time with one fresh battery set	At least 4 hours
Operational weight	not more than 1.2 kg

■ Non-linear junction detector SL-26



The SL-26 is an unique non-linear junction detector that is notable for its compact size, ergonomic design and weight.

The dimensions are as small as 39x10 x 4 cm; the weight is less than 700 g. Owing to its thinnest antenna (only 18 mm thick) it can be used for the hard-to-search places. The SL series are 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. Its power output is harmless to operator's health. Operation at higher frequencies makes it in some cases more efficient than detectors with standard frequencies but with greater power output. The delivery set includes wireless headphones.

Specifications

Radiation mode	continuous, pulse
The frequency of the probing signal in the range	2400MHz
The max power output (max. // average)	
-Pulse mode	10W // 230mW
-Impulse mode with small duty cycle (CW)	200mW
Receiver sensitivity	-110dBm (-140dBmW)
The dynamic range of the receive path	24dBm
The adjustment range of the probing signal power	20dBm
Battery life at max power in a pulsed / continuous mode	3h / 1.5h
Device dimension (folded)	39x10x4 (22x11x7) cm
The operating temperature range	+5...+40°C
Dimensions	23x10x5,5 (in transport bag) / 39x10x4 cm
Weight	less than 700 g
The full weight of the item in a bag	1.7kg

■ Non-linear junction detector LUXVIEW

The Luxview non-linear junction detector is intended for search and detection of electronic devices installed in building structures, pieces of furniture and interior, both in transmission and switched-off mode.



Specifications

Types of output signal:	
uninterrupted carrier frequency transmission;	
impulse carrier frequency modulation;	
uninterrupted carrier frequency transmission with 1 kHz;	
frequency modulation (CW + FM)	
Probing frequency	800 MHz
Analyzed harmonics	2nd and 3rd
Output transmission power:	
- in impulse mode	at least 15 W
- in continuous transmission mode	at least 1 W
- in CW + FM mode	at least 1 W
Dynamic output adjustment range	20 dB, 11 levels
Sensitivity of radio receivers	not worse than -100 dBm
Time of continuous work with one battery at the max. output power:	
for impulse carrier frequency modulation (pulse)	at least 5 hours
for continuous carrier frequency transmission mode (CW)	at least 2 hours
Weight of fully equipped device	not more than 1.7 kg
Total length of the device in working condition	125 cm
Total length of the device in folded condition	55 cm
Working ambient temperatures	from +5 to +40°C

Distinctive features

- Adjustable wide range transmission power and possibility to work near radioelectronic devices;
- Automatic output power adjustments make operator's work much easier;
- Use of digital signal processing allows to optimize signals processing algorithms and reach maximum sensitivity;
- Use of 3 types of ranging signal modulation (PULSE type carrier frequency impulse modulation, uninterrupted transmission of carrier frequency CW and uninterrupted transmission of carrier frequency with 1 kHz signal frequency modulation (CW + FM)) allows to combine long detection range with reliable identification of detected devices;
- Level of the 2nd and 3rd harmonics may be assessed in turns aurally by frequency of clicks translated through an internal speaker or attachable headphones.
- Presence of a reradiated SHF signal envelope detector allows to listen to active electronic devices containing an acoustic transducer.
- Possibility to work both with a rechargeable battery or 220 V AC power supply

■ Non-linear junction detector SL-01

The SL-01 non-linear junction detector is designed to detect various kinds of electronic devices containing semiconductor elements.



Such as eavesdropping devices, microphone amplifiers, audio-recording devices, remote control devices, etc., both in switched-on and switched-off modes.

Specifications

Radiation mode	continuous, pulse
Power of pulse/continuous signal	15 / 1 W
Sensitivity	not worse than -130 dBm
Signal frequency	880-906 MHz
Dynamic range	not less than 80 dB
Battery life	not less than 2 hours
Dimensions	40 x 15 x 6.5 (in transport bag)/ 135 x 15 x 3.2 cm
Weight	less than 1 kg

Distinctive features

- Light weight (less than 1 kg).
- The unique antenna (only 18 mm thick) allows the hard-to-reach places to be investigated.
- Minimum output power (1 W in continuous mode and 15 W in pulse mode).
- Automatic frequency selection allows operation in complex electromagnetic environment.
- Possibility to choose either continuous or pulse radiation mode.
- Wireless headphones for audio information.



Data leakage channels detection

Wireline Analyzer **NEW!**

ST-600

The ST-600 wire line analyzer 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 operations. This allows detecting eavesdropping devices which are in active or in stand-by mode at the time of a sweep operation.



Application

The ST-600 has a set of functions necessary for the detection and localization of wired listening devices.

These functions include:

- Detection and evaluation of low-frequency signals in low-current conductive lines;
- Activation of electret cable microphones by filing an in-line bias voltage;
- Detection of eavesdropping devices signals, which are transmitting information via power and low-current lines in the frequency range from 100 kHz to 150 MHz;
- Detection and assessment of unauthorized galvanic connections to conductive lines using methods of non-linear junction detection and reflectometry;
- Tracking wire lines laid in walls and other building structures using trace locator.

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-600 delivery set, allows to connect the device to the most common types of wired lines.

The device can be used in standalone mode or controlled from a personal computer.

Modes of operation

The solution of different ways to detect wired eavesdropping devices is ensured by the multifunctionality of ST-600, appropriate accessory pack and the use of passive and active modes of operation. Systems technical and programming basis, implemented in the structure and unique algorithms allows to use it in the following modes:

- Electronic switch;
- Low frequency amplifier;
- Wireline receiver;
- Nonlinear junction detector for wire lines;
- Reflectometer;
- Trace locator;
- Switching ST-600 in any of these modes is carried out compulsorily as at the same time the device can only operate in one of the main modes.



Multifunctional Detection Device

NEW! ST-301

The ST-301 is a new generation multifunctional counter-surveillance device, designed for detection and localization of all major types of eavesdropping devices.

Detects

- Radio microphones;
- Telephone transmitters;
- Radio-stethoscopes;
- Concealed video cameras equipped with a radio channel for transmission of information;
- Technical means or systems for spatial radio frequency radiation;
- Beacons of the systems used for moving objects monitoring (e.g. people, transportation means, goods etc.);
- Unauthorized radio stations, radio handsets, and also telephones with radio-extension;
- Radio modems and digital wireless access systems;
- Devices transmitting intercepted information by AC 220V mains lines and capable of operating at frequencies up to 30 MHz;
- Technical means of imposing a linear high-frequency signals operating at frequencies above 150 kHz;
- Devices transmitting intercepted information by subscriber telephone lines, the lines of fire and burglar alarm systems with a carrier frequency above 20 kHz;
- Computers and other technical means of production, reproduction and transmission of information.

Features

- Three detection channels, each of which is designed to search for signals in a particular frequency range. Set of antennas, sensors and adapters allows to adapt the device to process search for a variety of eavesdropping devices and information leakage of natural origin;
- Ability to distinguish signals from the base station and signals from cellular phones;
- Investigation of the received signal in spectrum analyzer and oscilloscope mode;
- Identification of standard digital data transmission channels (GSM, DECT, BLUETOOTH, WIFI and etc.);
- Simple and intuitive interface;
- PC-connection feature provides the ability for imaging and archiving information.

Specifications

Channel 1 selective HF detector frequency range	140...4420 Mhz
Input impedance	50 Ohm
Bandwidth	1-40 Mhz
Scanning speed	40 Ghz/s
Minimally detectable signal in the automatic mode	≤ -65 dBm
Dynamic range	50 db
Demodulation modes	AM / wideband FM
Channel 2 scanning receiver frequency range	0,05...140 Mhz
Input impedance (symmetrical)	600 Ohm
Minimally detectable signal in the automatic mode	25 dBuV
Bandwidth	40 Mhz
Scanning speed	35 Mhz/s
Channel 3 low-frequency amplifier frequency range	0,025...100 Khz
Input impedance	100 kOhm
Amplification ratio	12, 24, 36, 48 db
Multipurpose adapter BWLC031M max.allowed voltage in power line	300 V, AC, DC
Ultrahigh frequency sensor frequency range	3...12 Ghz
Induction converter (Magnetic field sensor) frequency range	0,07...100 Khz
Measuring range of the magnetic field, nT	0,5...2000 nT
Dimensions of the main unit (length, width, height)	175x83x36 mm



Data Leakage Channels Detection



■ Hidden camera detector

SHD-100



The SHD-100 is designed to remotely detect alive hidden video cameras irrespective of the way they record or transmit video information and irrespective of the means of concealment.

The SHD-100 can detect wired and wireless cameras as well; it is able to detect intrinsic spurious emanations of a camera.

The principle of operation is based on the analysis of certain parts of electromagnetic spectrum which is used in video cameras. In this manner it detects the emanating signals characteristic exclusively of miniature video cameras. The USB connection to a computer permits updating of the database of the then known video cameras.

Specifications

Average camera detection range	Up to 15 m
Average camera detection time	From 5 to 30 s
Maximum detection time	Not more than 1 min
Sensitivity	-140 dBm (10 nV)
Resolution of spectrum	7 Hz
Detection indication	Light indication (spectrogram)
Continuous run time	Up to 1 hour
Battery charging time	About 1,5 hours
Antenna	Cylindrical, Broad-band
Antenna directional pattern	Circular
Screen/display	Colour LCD touchscreen
Battery power	Li-Ion battery
Operating temperature range	From -10°C to +40°C
Dimensions	85 x 140 x 40 mm
Weight	460 g

Optical camera detector

SOD-200

The SOD-200 optical camera 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 SOD-200 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 SOD-200 lens as a result of reflection. The detector is designed as a binoculars in rubberized metal housing.



Features

- The detector allows to inspect the objects more qualitatively;
- Less stress for the operator when compared with monoculars (no need to close one eye);
- The green LED light allows to detect cameras, which are protected by a 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 zoom lets you to inspect the smallest details and hardly reachable elements of the interior;
- The SOD-200 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	7,5 degrees
Zoom	6,5x
Focusing range	0,5m to ∞
Operating modes	pulse (green, red, both) / continous (green, red)
Power supply	built in Li-ion 3.6 V battery
Type of light	22 pcs. of LED
Weight in operation/transportation	450/800 g
Operating time in pulse/continuous mode	4 h / 6 h

■ Optical camera detector

SOD-300

The SOD-300 hidden camera lens detector is designed to detect and locate hidden (camouflaged in the interior) camcorders such as “pinhole”, regardless of their status (on / off) and the type of video signals.

The detection method implemented in the SOD-300 is based on 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 SOD-300 lens as a result of reflection.



Features

- The detector allows to inspect the objects more qualitatively;
- Less stress for the operator when compared with monoculars (no need to close one eye);
- The green LED light allows to detect cameras, which are protected by a special filters, which are being used to bypass the detection based on red light;
- 6.5x zoom lets you to inspect the smallest details and hardly reachable elements of the interior;
- The SOD-300 is safe for short-term direct illumination in the eye as laser light is not used.

Package Includes:
SOD-300 detector - 1 pc.
AAA batteries - 3 pc.
Strap - 1 pc.
Bag - 1 pc.
Manual- 1 pc.

Specifications

Detection range (depending on light conditions)	0.5... 50 m
Angle of view	7,5 degrees
Zoom	6,5x
Focusing range	0,5m to ∞
Operating modes	solid green / solid red
Power supply	3 AAA batteries
Type of light	LED
Number of LED's	8 pcs.

RF detector – frequency meter SRD-100

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



Detects

- Cellular phones of GSM900/1800, UMTS(3G), CDMA450 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

- Selective reception of radio signals;
- Detection of wideband and digital signals;
- Listening to signals;
- Metering of frequency and level of signals;
- An alert log;
- Silent alert signal (vibration mode);
- No external antenna.

Specifications

Frequency range	40-3800 MHz
Typical sensitivity	70 mV/m
Dynamic range	50 dB
Pass bandwidth	10 MHz
Battery life in a watchdog mode	4-12 h
Battery life while in other working modes	3 h
Display	OLED 128 x 64
Overall dimensions	77 x 43 x 18 mm
Mass	35 g

■ Selective Detector of Digital Transmitters

SDT-35

The SDT-35 is intended for detecting and identifying standard cellular transmitters and wireless data transmitters.



Standard

- GSM 900/1800
- UMTS (3G)
- WI FI
- Bluetooth

Devices

- GSM and 3G cellular phones and modems
- WiFi and wireless video cameras operating at a frequency of 2.4 GHz
- Bluetooth hand-free sets

The SDT-35 also displays the Base Stations power signal strength and data exchange intensity.

By the principle of its operation, the SDT-35 is a digitally controlled direct-conversion receiver with a color OLED display.

The SDT-35 scans a series of frequency ranges of the known transmission standards to detect signals. The user can set up the detection threshold and the number of desired frequency bands.

Automatic Mode

In Automatic mode, the SDT-35 detects signals above the selected threshold and saves them in the **Events Log**.

The bottom line of the screen displays abbreviated symbols for the digital data transmissions modes selected by the user.

The SDT-35 can be scheduled to operate completely autonomously.

Manual Mode

Displays signal strength, time diagram and base station tower levels. This mode is intended for the detection of:

- The location of mobile devices.
- Threshold levels for use in Automatic Mode.

Log View Mode

In this mode, you can view the events registered by the SDT-35 during Automatic Mode. The following data is displayed:

- Time of event.
- Duration of event.
- Type of event.
- Signal strength.

The ST 062 can hold 30 banks of up to 999 events each.

Additional Features

- Built-in Relay (terminals on the external port). Extends the functionality of the SDT-35 to remotely switch jammers and additional indicators "ON" and "OFF".
- External port for connecting additional antenna amplifiers.
- Original software allows you to:
 - view real-time graphs of the operation of the SDT-35 or view the events collected during Automatic Mode on a computer display;
 - create a database of logged events;
 - operate the device directly from a computer via a USB port.

Specifications

Frequency ranges	890-960 MHz 1710-1900 MHz 1940-2144 MHz 2400-2600 MHz
Display dynamic ranges	890-915 MHz -75 +10 dBm 1710-1900 MHz -70 +10 dBm 1940-2144 MHz -80 +10 dBm 2400-2600 MHz -70 +10 dBm
Threshold range	60 dB
Attenuation of out-of-range signals	greater than 50 dB
Built-in Li-Polymer rechargeable battery	3.6 V
Display	color OLED, 160 x 128 pixels
Maximum current	0.3 A
Dimensions	90 x 54 x 21 mm (3.5 x 2.1 x 0.8 in.)

EM near-field indicator - frequency meter

SEM-MM

The SEM-MM electromagnetic near field indicator - frequency meter is designed for search, detection and localization of places, where various types of concealed active radio transmitting devices are installed.

Channel power meter includes a channel analysis of electric and magnetic components. The results of measuring the phase difference and amplitude ratio is processed and displayed on the display device simultaneously with the classical scale capacity.

The SEM-MM has three operating modes:

- Search
- Monitoring
- Log view

Upon detection of a radio transmitter the device informs the operator by audible and visual indication.

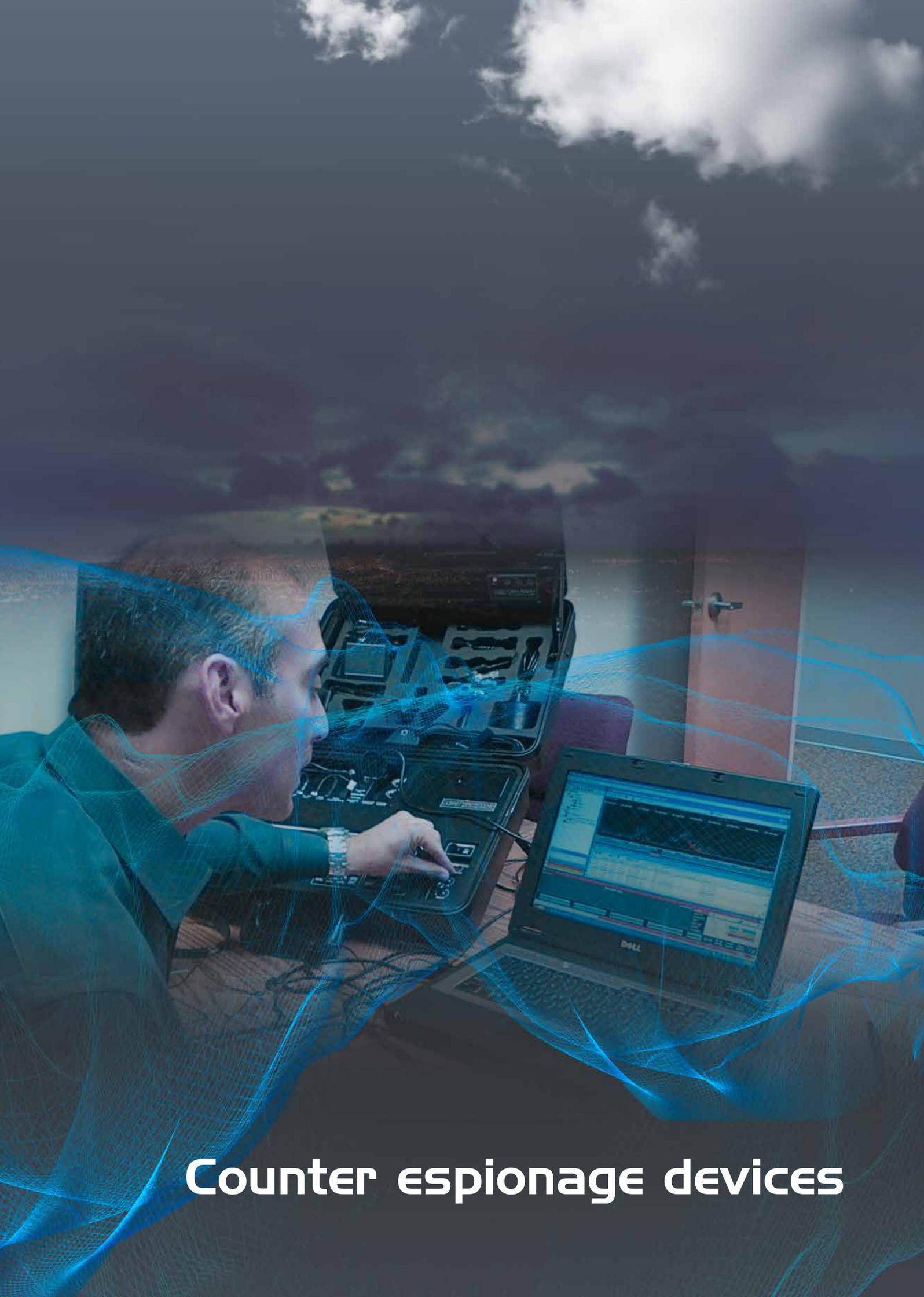
Advantages

- High sensitivity;
- Near field indication of active transmitter's eliminating false alarms from background signals;
- 4 in 1 design: RF-field detector, frequency meter, digital signals identifier, electromagnetic near-field indicator.



Specifications

Frequency range in the channel of signal power detector	50...3500 MHz
Frequency range in the channel of EM near-field indicator	50...3500 MHz
Channel of signal power detector:	
- Input threshold sensitivity	not less than -60 dBm
- Dynamic range of indication	50dB
- Frequency meter sensitivity	not less than -40 dBm
- Continuous signal frequency measuring error	no more than 1%
- Pulse signal frequency measuring error	no more than 3%
Channel of EM near-field indicator :	
- Input threshold sensitivity	not less than -70 dBm
- Dynamic range of indication	60 dB
Nonvolatile memory capacity	2048 events
Power supply	2 NiMH AA batteries
Dimensions	135 x 70 x 25 mm
Weight	200 g



Counter espionage devices

■ Jammer of microphones and audio recorders SLK-250

The SLK-250 is an innovative device in the field of information security. The device uses an algorithm to generate a digital jamming signal. Effectively protects against eavesdropping devices and recorders. It also protects confidential conversations, meetings, business conferences and secret meetings against eavesdropping.



Application

The SLK-250 effectively blocks more than 99% different listening devices in the average distance to about 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 bugging;
- Professional digital voice recorder in the Bank card;
- Older and newer recorders and recorders in a metal housing.

The SLK-250 also prevents leakage of information through wiretaps analog, digital and seismic. The product is camouflaged in a briefcase and has the ability to stationary and mobile.

Features

- Type of work based on author's algorithm for generating a digital jamming signal. (New software);
- Quiet (Some people may hear working mode as fan noise from computer- especially young people);
- Remote radio turn on/off, charging indicator and battery status;
- Simple operation and maintenance.;

Specifications

Directionality generators:	
horizontal plane	70°
in a vertical plane	70°
Power supply	built-in battery or AC adapter 110-230 V
Operating time with built-in battery	up to 6 hours
Continuous operation time	max 3 hours
Charging time	6 hours
Weight	7-8 kg
Operating temperature range	0° ... +40° C (32-104 Fahrenheit)
size	44 x 33 x 10 cm

Acoustic and vibroacoustic protection system SAK-IIO

The SAK-110 system is used for room security to prevent information leakage via acoustic, vibroacoustic and laser channels by forming wideband acoustic and vibroacoustic masking noise interferences. The system consists of a central generator unit and passive electromagnetic (vibration) or electrodynamic (acoustic) transducers, connected by wire.



Application

Information leaks out of a room by means of vibrations, which are created in walls, windows or pipes by acoustic signals circulating in any room, and may be intercepted by intruder, thus the system provides active protection from:

- Microwave systems, including laser microphones, used for interception of audio information through glass of windows;
- Stethoscope / contact microphones, used for interception of audio information through solid structures (walls, ceilings, floors, window openings and glass), gas and water piping;
- Wireless and cable-microphones and devices of magnetic recording, installed in wall cavities, above false ceilings, ventilation channels, etc.

Electromagnetic (vibro) transducers, connected to the generator, are fixed on building structures (walls, windows, heating pipes) with special fastening units. When the generator is turned on, they create a masking noise signal in walls, windows and pipes, which prevents from eavesdropping in the room. Electrodynamic transducers (speakers), which are also connected to the generator, are used, as a rule, for protection of air pipes and empty spaces in armstrong ceilings.

Features

- Entrance to the setup menu is protected by a 4-digit password variable;
- Timing of use of noise generation and display on the LCD indicator values separately for each channel (the correction values are not user);
- No need for special training;
- Short-circuit protection for each channel;
- Monitor the status of the system;
- Adjusting the emission level;
- Remote control (Optional).

Specifications

Diapason of reproduced by transducers noise signal	90 Hz...11,2 kHz
Quantity of constructively independent channels	2
Quantity of transducers, connected to each channel	up to 32
Equivalent load impedance of one channel	from 2,7 to 12,5 Ohm
Quantity of the octave lines of the equalizer	7
Power supply	from mains 220 V / 50 Hz
Power consumption	30 W
Mid-geometric frequencies of octave bands	125, 250, 500 Hz, 1 kHz, 2 kHz, 4 kHz 8 kHz
Operating temperature	+10...+35 °C
Dimensions and weight of:	
- generator, not more	225x150x75 mm / 3 kg
- vibro-transducers SEL SP-157VP, not more	d40x35 mm / 0,05 kg
- acoustic transducer SEL SP-157AS, not more	100x70x35 mm / 0,25 kg

Active protection system for electric circuit and ground

SLK-280



The device is a technical means of active protection of information.

The SLK-280 prevents from information leakage through the power-supply (220 V) and ground lines providing a masking noise there. It also suppresses wiretaps which are using these lines as a data-transmitting channel.

Specifications

Noise frequency range	0.01 - 300 MHz
Lines protected	power supply, ground
Spectral-noise density (at 50 Ohm load relatively $1 \mu\text{V} / \sqrt{\text{kHz}}$) in the frequency bands, not less than	
0.01 - 1 MHz	90 dB
1 - 10 MHz	70 dB
10 - 100 MHz	50 dB
100 - 300 MHz	35 dB
Noise level adjustment range in the frequency bands, not less than	
0.01 - 0.5 MHz	20 dB
5 - 300 MHz	12 dB
Quantity of independent noise signal channels ¹	2
Noise quality factor	not less than 0,9
Leakage current through ground line	not more than 1 mA
Noise actuation control	manual, remote, RS-485
Operation conditions	
Operating temperature range	from 0 up to +50 °C
Relative humidity at + 25 °C	up to 85%
Atmospheric pressure	750 ± 40 mm Hg
Power supply	
AC mains	220 V ± 10% 50 Hz
Power consumption	not more than 12 W
Mass-volume	
Dimensions	172 x 172 x 42 mm
Weight	not more than 1.5 kg

¹ for phase-to-ground and zero-to-ground circuits

Cellular signal suppressor SLK-265

The SLK-265 is used as a means of protecting confidentiality during negotiations by impeding the operation of mobile telephones and obstructing certain digital communications channels (Wi-Fi, Bluetooth, WiMax).



Features

- SLK-265 operates inconspicuously for the visitors and does not impede the use of mobile communication appliances outside its coverage area;
- suppression levels can be adjusted separately on each channel;
- suppression in non-suspect channels can be switched off by setting their power levels to minimum;
- The SDT-35 detector of mobile digital communications devices can be used to activate ST 202 unit upon detection of irradiation in one of the channels;
- SLK-265 can be activated remotely via remote control port, or with the aid of an infrared remote control unit;
- SLK-265 is equipped with an automatic cooler system;
- a wide range of power supply voltage (12-18V) can be used;
- unlimited operation time when powered from 220V mains;
- SLK-265 stores all settings in its non-volatile memory, so one does not have to go through the setting up routine every time the Device is activated.

Operation in combination with SDT-35

In this mode the Device is to be connected to SDT-35 detector of mobile digital communication devices, by way of a standard audio cable with 3.5 mm jacks.

Upon detection of digital signals (DECT, GSM, BLUETOOTH, WIFI, 3G, etc.) by SDT-35, the Device becomes active for 1 minute. Within 30 sec of deactivation the SLK-265 returns to detector-controlled mode.

Specifications

Number of independent channels	10
Maximum power output, Wt	
CDMA450	0.8
GSM900	1.8 per channel (2 channels)
GSM1800, DECT	1.8 per channel (2 channels)
3G	1.5 per channel (2 channels)
3G low	1.5
LTE 800	1
WI-FI, Bluetooth	1
WiMax (4G)	1
Type of antennae	built in wide-band
Operation time	unlimited
Power supply	100...240V / 50...60Hz via adapter (12-18 V, 90Wt)
Power consumption from 220V mains, Wt	not exceeding 90
dimensions, mm	260 x 180 x 65
Weight (without power unit), kg	0.8

The product is now available with a remote control designed for remote activation and deactivation of the device

Cellular signal suppressor

SLK-745



The SLK-745 cellular signal suppressor is used to protect information during negotiations by limiting the operation of mobile telephones and some digital communications channels (Wi-Fi, Bluetooth).

The principle of operation is based on suppressing communicational system signals by setting up a barrier interference in the relevant frequency range.

One SLK-745 is able to suppress the operation of mobile phones and digital data transmission devices located up to 15 meters away.

Application

The suppressor can be used in the areas where the observance silence is required: in schools, hospitals, cultural institutions, churches, conference rooms, etc.

Specifications

Operating frequency range:	
GSM900 standard	935-960
GSM1800 standard	1805-1880
UMTS-3G standard	2110-2170, 2125-2170
WI-FI, Bluetooth standard	2400-2483,5
WiMax (4G) standard	2500-2700
Radiated power:	
GSM900 standard	1500 mW
GSM1800 standard	1500 mW
UMTS-3G standard	1500 mW
WI-FI, Bluetooth standard	1000 mW
WiMax (4G) standard	1000 mW
Operation time	unlimited
Type of antenna	built in dedicated-band
Power supply	100...240 V via adapter (12-18 V, 90 W)
Dimensions	260 x 180 x 65 mm
Weight (without power unit)	0,8 kg

Cellular jammer SLK-645

The device is designed to prevent cellular communication in designated areas.

It is based on advanced cellular jamming technology. The jammer transmits RF signal that blocks the communication between the mobile phone and the cellular base stations, thus paralyzing the operation of cell phones. This neutralizes the threat of being tapped with the help of cell phones, prevents illicit telephone conversations and provides a silent work environment in a given area. Moreover, mobile phone jammer provides an easy to operate solution against the universal threat of using cellular phones as bomb's triggers.

The basic version of the SLK-645 is able to block cellular networks of CDMA-450, GSM-900, GSM-1800 and UMTS standards. Upon customer's request the jammer can be manufactured with 4 bands of any other cellular standards.

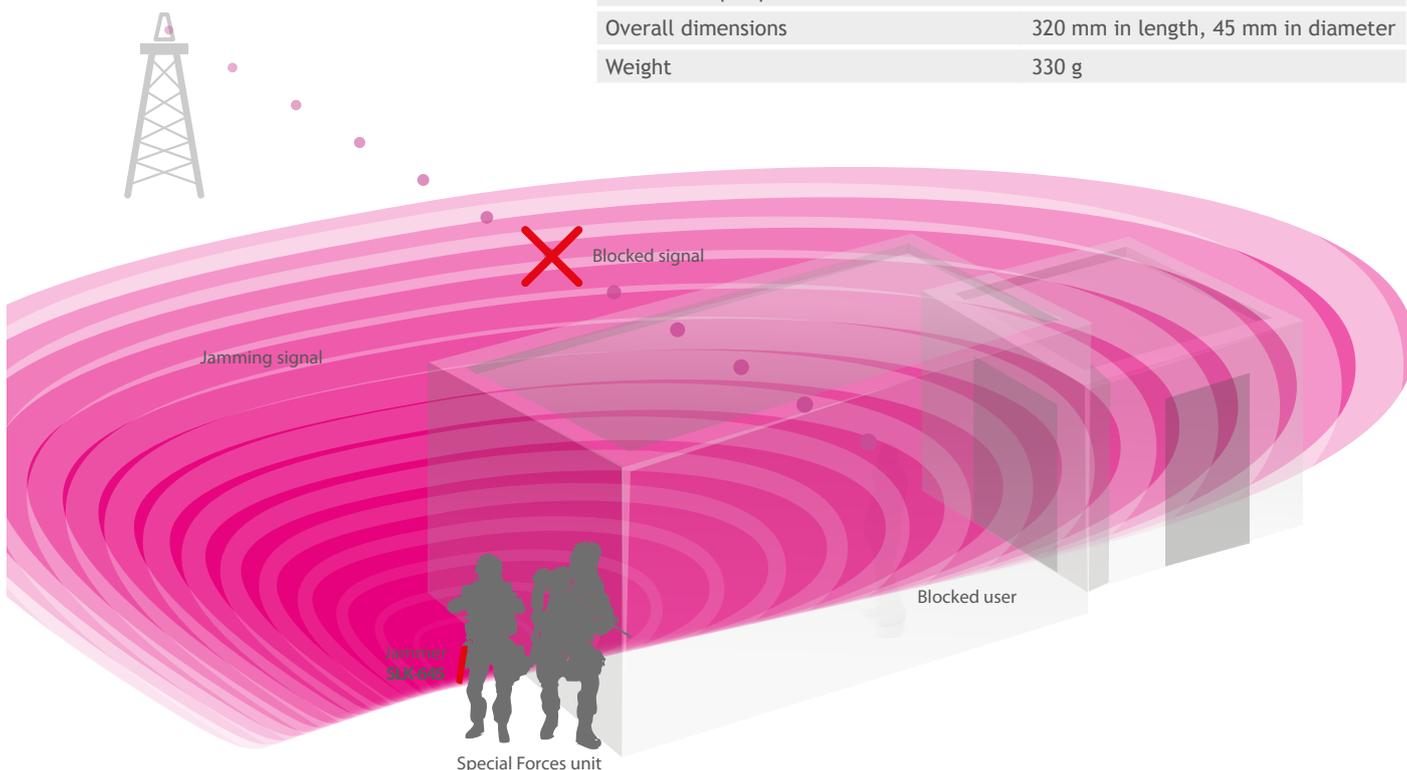


Distinctive features

- The device can block all bands simultaneously or only some of them, which are required at the moment.
- Independent power control in each of 4 bands (3 dB in a step).
- Unique embodiment,
- Easy to use.

Specifications

Band № 1 (CDMA-450 standard)	463 - 467 MHz	Max output power: - bands № 1, № 2 - band № 3 - band № 4	not less than 700 mW not less than 500 mW not less than 300 mW
Band № 2 (GSM-900 standard)	935 - 960 MHz		
Band № 3 (GSM-1800 standard)	1805 - 1880 MHz		
Band № 4 (UMTS (3G) standard)	2110 - 2170 MHz		
Power supply		3.7 V Li-Ion rechargeable battery	
Battery life:			
- at max output power in each of 4 bands		not less than 4.5 hours	
- at min output power in each of 4 bands		not less than 13 hours	
Overall dimensions		320 mm in length, 45 mm in diameter	
Weight		330 g	



■ Jammer of microphones and audio recorders

NEW! SLK-270

The SLK-270 ultrasonic jammer is designed for complete protection of conversations from recording on devices with microphones such as mobile phones (including smartphones), dictaphones, audio recorders (including professional and digital), radio- and wired microphones. This suppressor creates a complex structured ultrasonic noise which impacts directly to microphone diaphragm. Device can be placed on a table or inside a briefcase.



Features

- Complicated structured ultrasound interference in the range frequency from 24 kHz till 26 kHz;
- Full mobile version with power supply from Li-Pol battery capacity 4100 mA/h;
- Remote switching on/off interference by wireless remote control;
- Possibility to work from battery or from external adapter;
- Indication level of battery charge;
- Increased efficiency and distance of suppression due to manufacturer's patent pending technology.

Specifications

Amount of ultrasound suppressors, pcs.	10
Emission range , kHz	24 – 26
Type of emission interference	acoustic pseudo-random signal such as "speech chorus"
Recording equipment suppressing distance	up to 10 m (depending on the type and location of the microphone)
Type of integrated batteries	Li-Pol
Capacity of each battery	4100 mA/h
Input of power voltage	5V, 2A
Time of continuous operation with a fully battery charge	up to 4 h
Time of full charging cycle, not more than, h	10
Possibility intermediate charge	yes
Range of operating temperature, C	+5...+40
Relative humidity, not more than	85%
Dimensions, mm	110x105x46
Weight, g	300

■ Active information protection from TEMPEST SLK-950

The SLK-950 is an active information protection from TEMPEST (Transient Electromagnetic Pulse Emanation Standard) leakage system is designed to protect information processed by technical means and systems by generating an electromagnetic field noise interference signal over a wide frequency range in space and electrical noise signals on the conductors, including on the ground circuit and the power supply conductive lines and engineering communications beyond the controlled area.



Features

- Use of the thermal noise source with digital processing provides a uniform linear spectrum of the noise signal over the entire frequency range.
- Separate adjustment of the output level of the noise per band allow optimal way to form a "protective interference" by reducing the levels of spurious electromagnetic radiation.
- Digital autonomous (password protected) management and control of system settings with the information output to the built-in LCD screen.
- Remote control over Ethernet allows you to combine devices in a network to form a distributed information protection system of any object.
- The built-in counter of the total operating time of the generator interference with the registration of values in a secure non-volatile memory.
- Distributed control system and indicating normal operation or an emergency in parts of the system (visual, audio, text).
- Use a flat UWB antenna PA-111 significantly reduces installation time and system settings.



Specifications

The range of the generated noise signal	10 kHz - 3 GHz
Entropy noise ratio	0.9
Output of the magnetic antenna terminal	0.01 - 30 MHz
Output RF antenna, SMA connector	0.01 - 3000 MHz
The output terminals for connecting to wires, plug:	0.01 - 400 MHz
Range of noise level adjustment	from 0 to - 30 dB
Sub-band intervals to adjust the noise level at the output "A"	0.01-30, 30-140, 140-260, 260-400, 400-700, 700-1000, 1000-2000, 2000-3000 MHz
Sub-band intervals to adjust the noise level at the output of the "B"	0.01-1, 1-30, 30-140, 140-400 MHz
Built-in LCD screen size	62x18 mm
Indication of normal operation	LED and text
Indication of emergency mode	LED, text and audible (buzzer)
Controlling options	Using panel, using remote control or network Ethernet 10/100
Power supply	220 V 50 Hz or via an external DC adapter 12V 2A
Dimensions of generator	225x150x75 mm

Portable radio noise generator SNG-550

The SNG-550 is a radio noise generator which provides:

- concealment of informative emanating spurious transmissions of computers and peripheral devices;
- suppression of receivers used for radio remote control.

The SNG-550 is a powerful wideband generator creating electromagnetic interference within the range of 0.01 to 2500 MHz with the integral output power of up to 35 W.

The generator is made in the metal body which is camouflaged in a bag.

Also available:

SNG-150 with frequency is from 0.01 to 1500MHz with the output power up to 25W.

SNG-550C - created for longer continuous operation

SNG-550M – created for jamming microphone transmitters.

SNG-550V - created for jamming video transmitters.



Specifications

Frequency range	0.1 - 2500 MHz
Integral output power	35 W
Spectral density of the electric component of electromagnetic noise field emitted by telescopic antennas at the distance of 5 m (relative to 1 $\mu\text{V}/(\text{m} \times \sqrt{\text{kHz}})$), not less than:	
0.1-30 MHz	55 dB
30-100 MHz	45 dB
100-650 MHz	55 dB
650-850 MHz	45 dB
850-1000 MHz	25 dB
1000 - 2500 MHz	20 dB
Power supply	from 220 V AC, 50 Hz network
	from 12 V DC (in a car)
Consumption power	not more than 100 W
Operation mode establishment time	not more than 10 s
Dimensions of the metal case	220 x 135 x 135 mm
Weight	not more than 4 kg

Multi-purpose protection device SLK-512

The SLK-512 multi-purpose protection device provides concealment of informative emanating spurious transmissions of computer devices as well as crosstalks induced on power and earth circuits.

A small size of the unit and the availability of two telescopic antennas enables the user to quickly and easily mount the device, without the need to lay loop antennas along the perimeter of a room.

Specifications

RF jammer operation range	from 300 MHz
Noise frequency range made in cable lines	up to 300 MHz
Entropic factor of noise quality	not worse than 0.8
Power supply	220 V / 50 Hz via AC adapter 12 V / 1.5 A
Working temperature range	from +10 up to +35 °C
Relative air humidity at 25 °C	up to 80 %
Overall dimensions (without antennas)	150 x 65 x 50 mm
Weight	not more than 0.5 kg



Professional audio recorder

SAR-116

The SAR-116 digital audio recorder is designed for professional audio recording. Devices are produced in a plastic card body, 1.6 mm thick (identical to SMART and HID-cards). The device can record audio data in protected files which can not be played on other recorders and computers.



Features

- Miniature size. Identical in size to modern bank cards. No buttons or connectors;
- Long battery life. Up to 24 hours in record mode, up to 1500 hours in standby mode;
- High quality recording in noisy environments. Wide dynamic range of recorded signals;
- High level of data protection. Data is secured by a password;
- Quality/record time settings are adjustable via user-friendly software;
- Fast data upload rate. 1 hour of recorded audio data is transferred to a PC in under 1 minute;
- Voice-activated recording system (VAS) at adjustable acoustic level;
- Built-in clock and timer;
- Timer-controlled start/stop;
- Looped recording;
- Password protection;
- Built-in free memory and battery charge LED indicator;
- File signature feature. Recorder has a unique ID number that can be digitally signed to every audio file by AES 128 algorithm.

Specifications

Internal flash memory capacity	4 GB
Sampling frequency	24 kHz / 16 kHz / 8 kHz
Resolution	16 bit
Compression	IMA ADPCM, PCM
Continuous recording time, PCM/ IMA ADPCM	mono
- 24 kHz	24 / 96 hrs
- 16 kHz	36 / 144 hrs
- 8 kHz	72 / 288 hrs
Dynamic range	90 dB
Power supply	built-in Li-Pol battery
Time needed for full battery recharge	up to 2 hours
Power consumption in standby / record mode	0,1 / 4 mA
Battery life in record mode	24 h
Uploading time to PC or external device	up to 120 min
Dimensions	85x54x1.6 mm
Operating temperatures	-10° ...+40° C

■ Stereo Digital Voice Recorder HUMMINGBIRD

The Hummingbird voice recorder features 2 microphones (Stereo Mode) and micro SD card. High microphones sensitivity enables top-quality recording in complicated acoustic environment, including noisy areas and street. Built-in lithium-polymer rechargeable battery allows for at least 20 hours of continuous recording or certain time periods that can be implemented with two types of timers.



Features

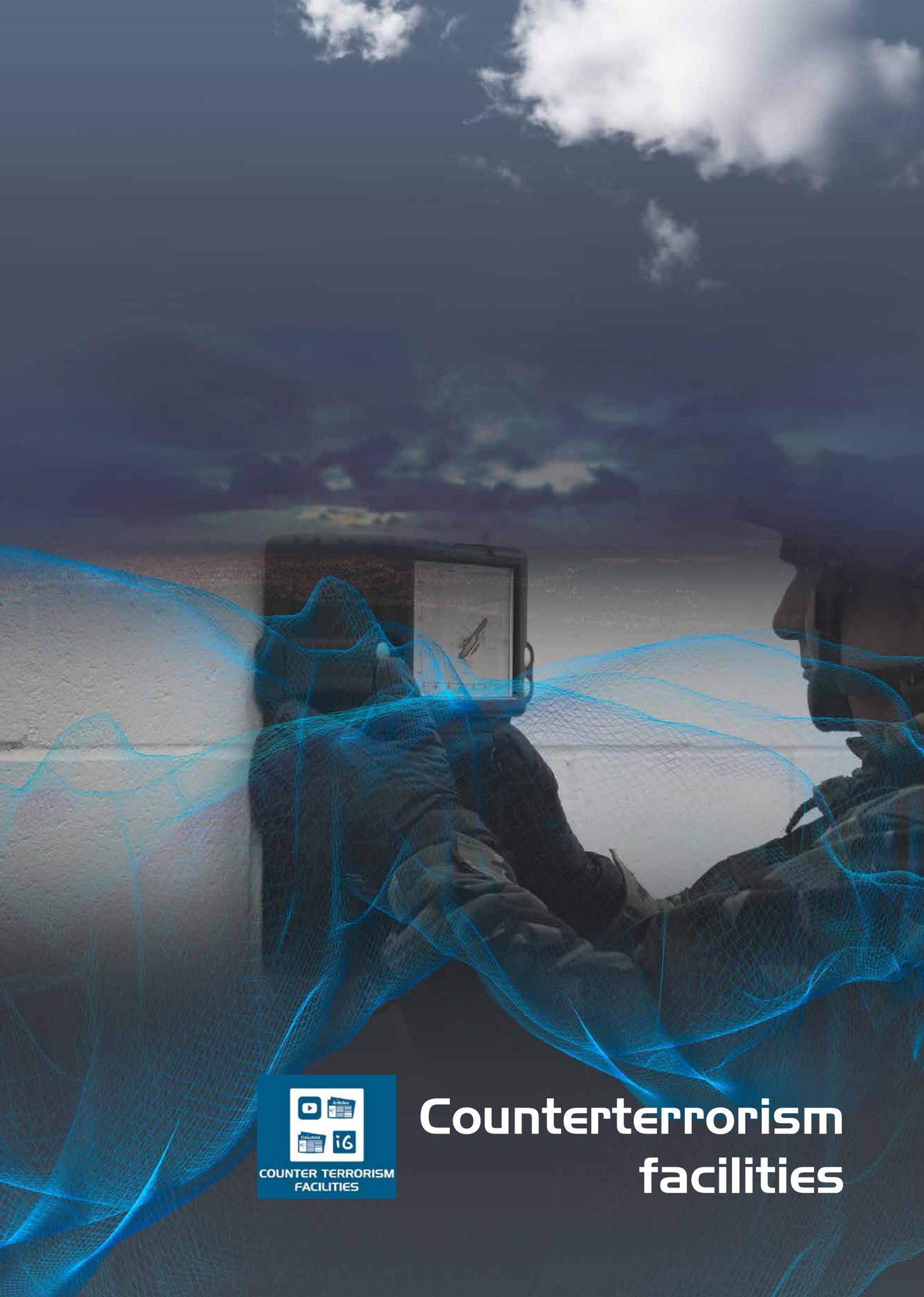
- The Recorder, manufactured in the form of a thin rectangular plate, is reliable and easy to operate;
- Recording is saved onto micro SD card. The recorder is initialized with the boot file, placed on a micro SD card;
- Two microphones allow to record in Stereo Mode;
- Password is encrypted with AES standard, 128 bit;
- Control and indication of the Recorder's modes are carried out using two hole-buttons and three-color LED on the rear side of the device;
- The Recorder has Built-in optional band-pass filter with adjustable cutoff boundaries;
- Information recorded onto the Recorder is protected by digital signature, which makes it possible to identify whether the recorded voice information has been modified;
- The Recorder provides Timer Recording. There have been implemented two types of timers, which are:
 - daily Timer to set daily record start time and record stop time
 - schedule Timer to set time and date of record start and stop time.

Specifications

Height	86 mm
Width	54 mm
Thickness	2.7 mm
Weight	17 g
Case	plastic
Battery life in record mode	at least 20 hours
Built-in battery capacity	120-180 mA*h.
Power supply	built-in lithium-polymer rechargeable battery.
Battery life in stand-by mode	at least 3000 hours
Compact flash card capacity	2 gb
Interface	USB 2.0
Audio recording format	Stereo
Recording format	WAVE PCM Stereo.
Sample rate	8kHz, 16kHz, 32kHz, 44.1kHz.
Frequency bandat least	16 kHz
Dynamic range	80 dB
Voice Activating System	no
Timer recording	yes
Battery charging time	2 h
Dimensions	86 x 54 x 2.7 mm

Delivery SET:

- Voice Recorder
- SD card with software
- Micro SD adapter
- USB adapter
- User manual



Counterterrorism facilities

■ Portable combined survey detector SHM-340

The SHM-340 is designed to detect various timing devices: mechanical, electromechanical, electronic, as well as other electronic devices and gears by their electric, magnetic, acoustic and vibrating emissions.

Features

- Compact, easy-to-handle design;
- High sensitivity;
- Safe in use;
- Can be used in places where active radio-electronic equipment is not permitted.

Detects

- Electromechanical timing devices at an up to 40cm range;
- Electronic timing devices at an up to 10cm range;
- Radio signal receivers at an up to 15cm range;
- Questioned items inspection - RC IED or explosive devices with clock retarders;
- Searching for persons hidden in shelters;
- Aircraft inspection.



Specifications

Indication	headphones
Power supply	4 x AA cell
Continuous operation time	not less than 30h
Dimensions (length/diameter)	510mm / 34mm
Operational temperature range	+5°C...+40°C
Weight (ready for operational / in standard packing)	0.65kg / 2.4kg

■ Non-invasive parametric detector SHM-360

The SHM-360 is designed for non-invasive detection of various timing devices: mechanical, electromechanical or electronic in active mode, as well as hidden multiple metallic articles.

Features

- Suspicious items prompt inspection;
- Unbeaten tool for covered crowd investigation for suicide-bomber with body-worn pellet-bombs.

Detects

- Mechanical and electromechanical timing devices at range up to 5 m;
- Electronic timing devices at range up to 1.2 m;
- Communication receivers at range up to 1.5 m;
- Multiple metallic articles medley at range up to 5 m;
- Questioned items inspection for RC IED or explosive devices with clock retarders;
- Individual's survey for suicide-bomber with body-worn pellet-bomb.



Specifications

Probing signal	CW
Output power	10mW
Power supply	6 X AA cell
Continuous operation time	not less than 20h
Dimensions (without handle)	195x195x20mm
Operational temperature range	+5°C...+40°C
Weight (ready for operational / in standard packing)	0.8kg / 1.5kg

■ Explosive vapour detector

STC-108

Timely detection of explosives, explosive objects and revealing of explosion organization has great significance for prevention of act of terrorism. The STC-108 portable explosive vapor detector has unique specifications and can detect both vapours and trace quantities of explosives indoors and at any means of transport (cars, planes, rail-way, and ships).



It can be done by checking clothes, hands and things of a suspect. If there are any elements of explosives, they would be detected. All explosive detecting operations may be easily realized using the STC-108 portable explosive vapour detector. It has unique specifications and can detect both vapours and track quantity of explosives indoors and at any means of transport (cars, planes, railway cars and ships). Detection is ensured by taking air samples from inner space of inspected objects and their subsequent analysis. Remote trier with grid thickener (part of delivery set) allows to take samples in dusty and smoky areas. Moreover, there is a method of taking samples by special napkins, which are later warmed up in a sample heater, which is also included in the delivery set.

The STC-108 allows to detect trace quantities of explosives based upon TNT, NG, EGDN, PENT (PETN), RDX, HMX, Tetril, cellulose nitrocompound gunpowders, including ones on their base: SEMTEX (plastic and elastic explosives on RDX & PENT base or their medley), B-type compositions, C-type mix (C1, C2, C3, C4, etc.)*, H-6, HBX, Minol-2, Amatol, Primacord, Primasheet, Tetritol, Tritonal, Cordite N, A-IX-1, A-IX-2, A-IX-20, explosives of Octols & Ocfol families and some other substances.

The device construction and analysis algorithms provide high selectivity and noise immunity.

The STC-108, in contrast to analog equipment doesn't contain a radioactive source and is absolutely safe for the operator and the environment. Therefore, there are no limitations of purchasing, keeping, transportation and utilization of the device. Main parts and its design are protected by four patents on development and one patent on industrial sample.

Specifications

Threshold sensitivity (TNT sample)	not worse than 10-13 g/cm ³
Response time on explosive vapour	not more than 1 sec
Operationability time	10 sec
Maximum distance between VD nozzle and examined object	30 mm
Weight	not more than 2 kg
Dimensions	300x180x90 mm
Power supply	6 V rechargeable battery, 220 V/50 Hz
Battery life	4 hours at least
Weight	not more than 2 kg (with battery)
Operating conditions:	
- temperature	+5...+40 °C
- humidity at 25 °C	up to 90%

■ Portable metal detector

SHM-320

The SHM-320 is designed for detection of objects with the presence of metallic elements on the surface and in the depth of harbouring various media (soil, snow, water, masonry, etc.).



Features

- Metal Detector allows you to categorize the search object on grounds such as the size of the search target, the type of metal (color, black);
- Operator during operation can independently adjust the sensitivity and selectivity of the device to optimize the search;
- The software allows the detector to write on the computer, change the default device settings for specific tasks to find metal objects with the specified parameters, to coordinate with the metal coils or third party of their own making.

Specifications

Type of Alarm	Sound and lighting
Battery	Battery type size LR-20 (AA)
Supply Voltage	4,5...9,0
Current, mA, max	
- without light indication	140
- with light indication	150...240
Setup time, min	Not more than 3 min
Time to prepare the product for use after powerup	Not more than 10
Pace of search, m2/h	Up to 300
Continuous operation of the product without having to replace the power supply in normal climatic conditions, h	At least 8
Terms of use:	
- Operating temperature, °C	- 30° to + 50°
- relative humidity, %	95±3 (temperature +35±2 °C)

Handheld control-wire-line detector

SCW-015



The SCW-015 was made for engineering corps, law enforcement squads and security teams and intended for the field application. Its main task is to reveal IED command line, determine its location and trace its route.

It is well known that terrorists commonly used wire-controlled IED. Commonly, they use SPP-2 — standard blasting cable, common telephone wire obtained from the main telephone lines and 0.5-1 mm² gauge coils wire from transformer windings of household appliances and industrial electronic equipment.

As a rule IED command line length is from 50m in urban condition and up to 350m in the country.

The SCW-015 can detect IED command lines with a length of 20m and more routed underground at a depth of 30cm max at the distance of 4m from its terminals.

Application

- Roads, terrain and objects inspection for mines, improvised explosive devices (IED) and other explosive appliances containing electronic components;
- Searching for hidden cache with weapons, ammunition and explosive devices;
- Investigation of questionable items, searching for sabotage-terroristic devices.

Advantages

- Short RC IED wire-line detection (from 20m and longer);
- User-friendly design, the tool can be easily adjusted under operator's height, surface relief and the height of vegetation;
- Two operational modes:
 - Unknown wire-line detection.
 - The detected wire tracing.
- Audio indication;
- LED indication:
 - Signal level in wire-line searching mode.
 - Direction of deflection from the detected line trace
- Power-source-state LED indication together with continuous voltage control;
- Separate generator and receiver modules operation possibility.

Specifications

Start-up time	not more than 10 min
Searching speed	3...5 km/h
Detection operation accuracy	not worse than ±10cm
Continuous operation time (under normal environmental condition)	not less than 10h
Power supply	6 AA cells, 2.5 Ah
Weight (in ready for operation mode)	not more than 3.3kg
Operation temperature range	-40°C ... +50°C
Humidity	up to 100% (under temperature up to +25 °C)

■ Rapid deployment microwave sensors

MDS-100

The MDS-100 rapid deployment microwave alarm system is designed for building temporary security borderlines with total range up to 2000 m. Complex can be used for the perimeter protection of stationary objects.

The complex is also intended for the intrusion detection by transmitting an alarm via RS-485 radio channel, GSM or other wireless networks to the control post.

The principle of operation is based on generation of an invisible volumetric detection zone between the transmitter and the receiver. When the intruder is crossing the detection zone, the receiver registers its alteration and generates the alarm. Alarm signal transmitting via RS-485 or radio channel to alarm receiver.

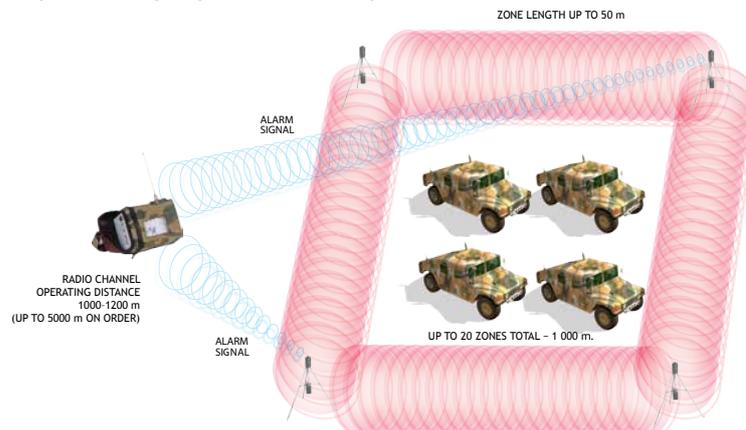


Advantages

- **USER FRIENDLY** - The sensors are easy to mount and adjust and do not require significant expenses on seasonal maintaining.
- **HIGH QUALITY** - We use up-to-date electronic components, which has mean lifetime up to 8 years. Each piece of products is subjected to 100% final inspection.
- **HIGH EFFECTIVE ALGORITHMS** - We use up-to-date effective algorithms for digital signal processing. As a result, we achieved the maximal interference immunity and reliability of the signal processing. The sensors are immune to the influence of rain, snow, fog, lightning, icing, solar radiation, electromagnetic field up to 500 kV, vegetation, birds and animals.
- **HIGH LEVEL OF INTEGRATION** - We make it easy to combine our complex with many modern integrated security systems. and popular control panel. We use traditional dry relay contacts as well as RS-485 to control the sensors and to transmit the alarm signal.

Features

- Available and effective complex for the protection of different sites with maximum number of positive testimonials.
- Operation on 10,525 GHz allows increasing the width of the detection zone. Like this, we make it difficult for the intruder to cross it.
- The easiest configuration using tripod, easy battery connection and antennas direction system is ready for territory protection. System deployment does not require high qualification of staff.
- Improved design and signal processing algorithms used provide the reliable detection of the intruder and high interference immunity.





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