EQUIPMENT & MATERIALS CATALOG

AGTES SERWIS

EFFECTIVENESS
PROFESSIONALISM
WARRANTY

EQUIPMENT AND MATERIALS FOR SECURING ROOMS AGAINST ACOUSTIC AND ELECTROMAGNETIC DISCLOSURE EMISSION

VIBROACOUSTIC EQUIPMENT

VIBROACOUSTIC GENERATOR SNG HP

The digital SNG HP generator is designed to protect rooms against eavesdropping by acoustic microphones.

The generator emits a barrier in the form of white - randomly changing vibroacoustic noise, adequate to the signal level which is subject to jamming. The noise signal level can be adjusted manually - according to the acoustics of the protected. The SNG generator can be started remotely from a dedicated infrared remote control or wired from a dedicated switch.

Technical data:
The range of generated frequencies: 10- 5000Hz
Number of channels: 4
Vibroacoustic noise signal level: 12dB
Output power: 4x 7W / per channel /
Acceptable number of tranducers per channel: 100
Dimensions: 310 x 170 x 55 mm,
Weight: 2.5Kg
Power supply: 13.8V DC - 220V / 230V-50HZ
Permissible ambient conditions during operation:
- working environment temperature: 0C to + 40C
- relative humidity up to 95%

PIEZO VIBROACOUSTIC TRANSDUCER

The PIEZO transducer is a device that converts electricity into energy of elastic vibroacoustic vibrations.

The transducer works with the HP SNG generator, transmitting randomly variable white vibroacoustic noise in the frequency range 10-5000Hz.
The PIEZO transducer is mounted to building partitions with the distribution of one transducer per square meter of surface.
The transducer can protect: window panes, water installations, ventilation ducts, central heating installation, etc.
Dane techniczne:
Impedancja: 8Ω
Zakres częstotliwości: 10-5000Hz
Zasilanie: 5,6 – 14 V DC
Wymiary: 36 x 0,5 mm
Masa: 15G

ACOUSTIC INSULATION EQUIPMENT

ACOUSTIC PANEL HDS 50

Flexible mat, pressed and compacted, made of polyurethane foams type T3037SG, designed for sound absorption and acoustic insulation.

Technical data:
Airborne noise reduction in the frequency range 10Hz - 200,000Hz.
Airborne noise reduction Rw> 55dB
Impact noise reduction Lw> 66dB
Sound absorption coefficient 0.9-1
Density 200 kg / m3
Color graphite / white
Sheet dimensions: 2000 x 1000 mm

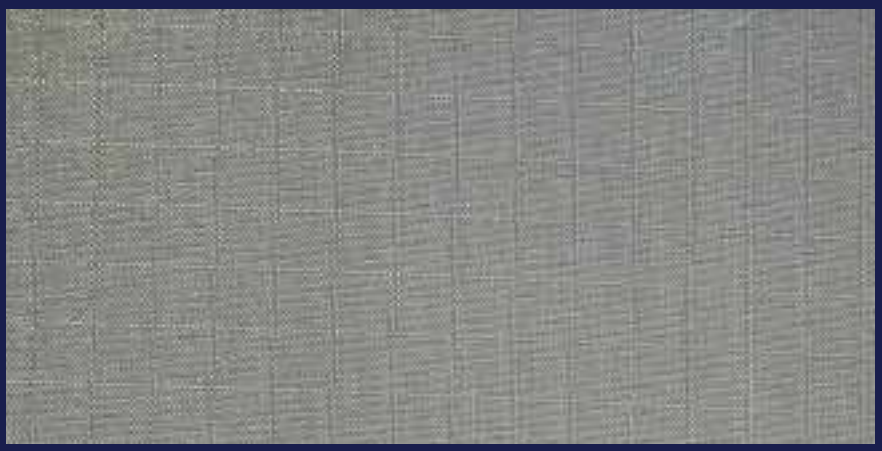
SHIELDING NONWOVENS

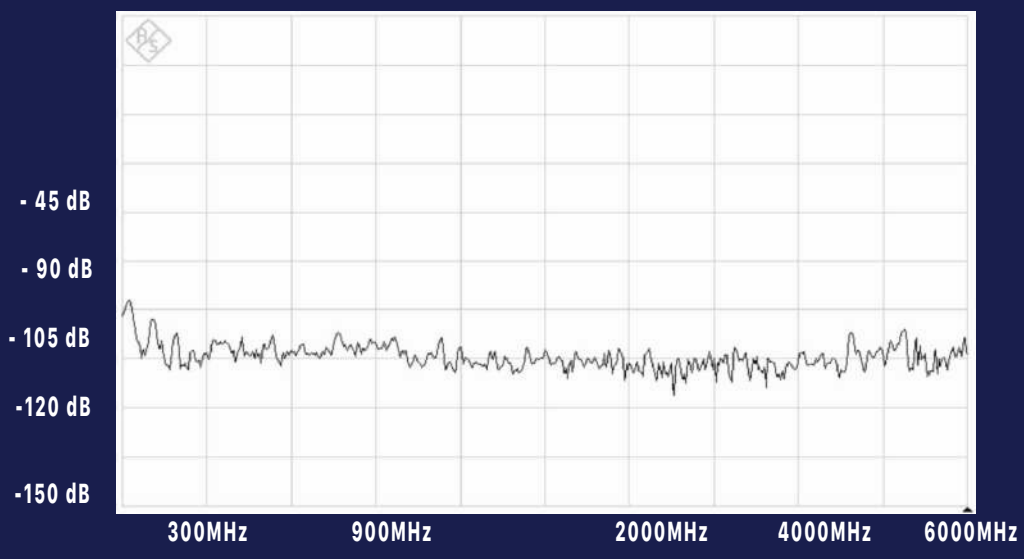
FABRIC RASK CuNi

The fabric is designed for EMI / EMC shielding.
Weaving weave of copper and nickel fibers, coated with PES amorphous polymer.
Surface resistance 0.02Ohm / m2
Shielding Effectiveness:

75-95dB in the 30MHz-1.5GHz range
95-105dB in the range of 1.5GHz - 6GHz

For use in the temperature range -30C to + 90C
Roll width 132cm +/- 2cm



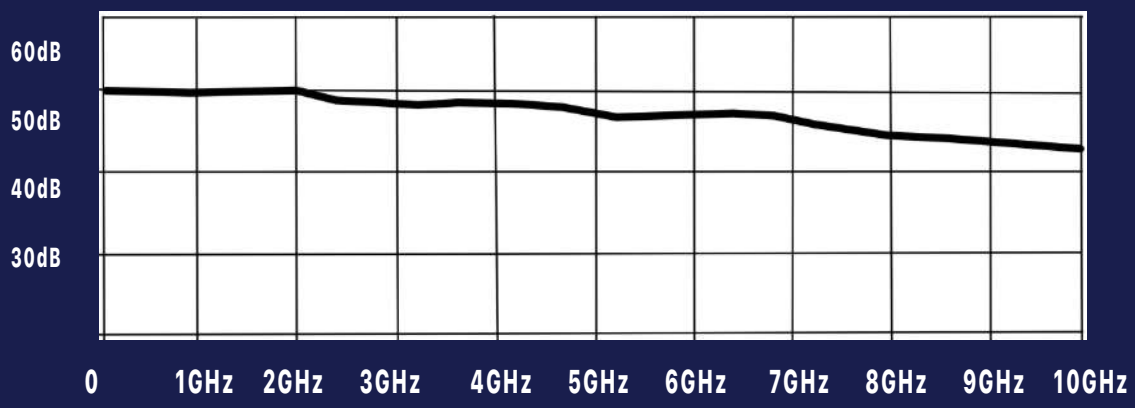


AARONIA X DREAM NONWOVEN

Non-woven fabric designed for EMI / EMC shielding.
A mixture of copper fibers with polyester fibers.
Shielding Effectiveness:
110dB in the range 250MHz - 2GHz
95dB in the 2GHz-7GHz range
Weight: 130g / m2
For use in the temperature range -60C to + 90C
Roll width 140cm

AARONIA SHIELD SHIELDING MESH

The mesh is designed for EMI / EMC screening of windows.
Made of silver and silver yarns
polyamide.
Shielding Effectiveness:
50dB in the range up to 1GHz
43 dB in the range up to 10GHz



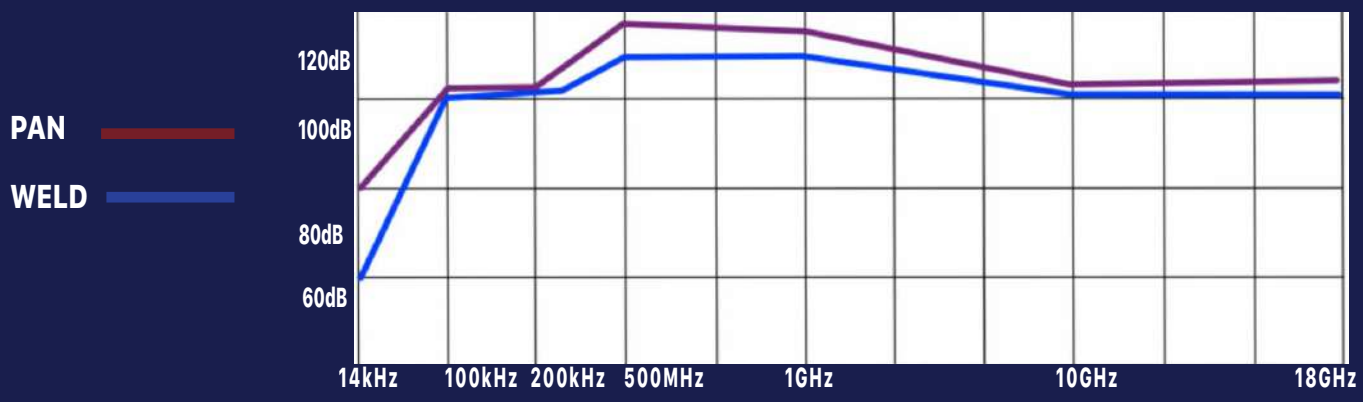
Weight: 15 g / m2
Thickness; 0.1mm
Mesh diameter; 0.7mm
Roll width; 1.4m

It is not intended for outdoor use

DOORS & WINDOWS SHIELDED ELECTROMAGNETICALLY

Designed for EMI / EMC shielding, rooms in Faraday cage technology.
The doors are delivered in two different types:
PAN type - galvanized steel screens, alternately twisted with sheets of screening mesh.
WELD type - galvanized steel screens alternately welded with sheets of screening mesh.
The doors can be delivered with the following opening systems: mechanical, electric, pneumatic.

Shielding Effectiveness:

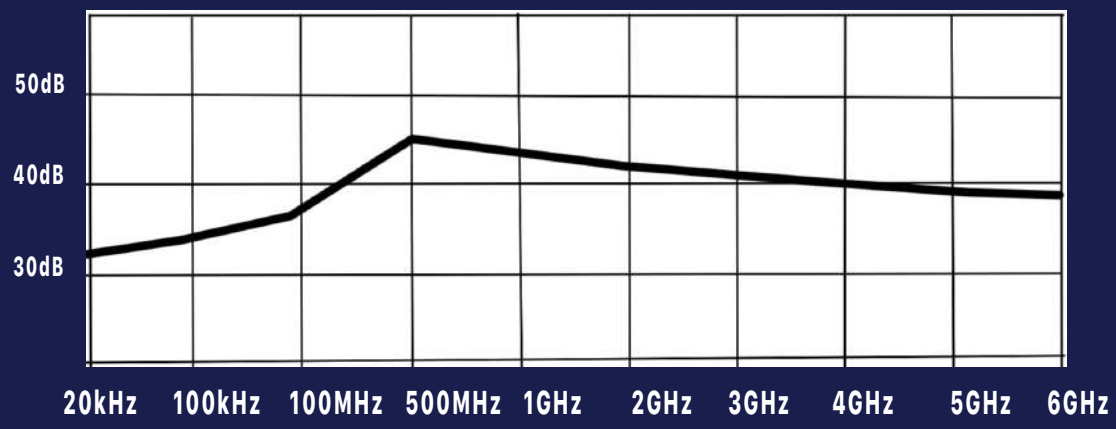


Standard sizes: 900x2000mm, 1000x2000mm, 1200x2100mm, 1500x2100mm

ELECTROMAGNETIC-ACOUSTIC SLUICE

Designed for screening rooms using Faraday cage technology.
Double steel doors mounted in a steel cassette. The first door, entrance door, can be delivered in RC4 class.
Lock cassette, frame profiles and door leaves are additionally acoustically insulated up to the resulting level of 80dB.

Efficiency of electromagnetic shielding: 40 dB in the range 100MHz -6GHz



ELECTROMAGNETIC SHIELDED WINDOWS

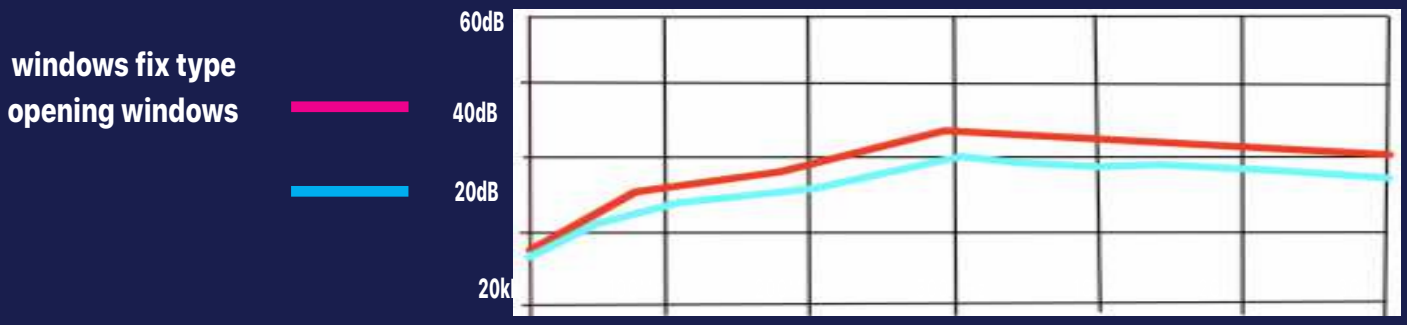
The casing of the window opening is made in the form of a steel cassette, constituting a sluice between two of electrically shielded window sashes.

The window construction can be equipped with non-opening windows (fix) or with openable windows.

The glass screen is made of AARONIA SHIELD mesh.
The limitation of light transmittance from the inside is 24%.
18% light transmission limitation from the outside.
A view of the shootout - slightly distorted.
Dimensions and shape of windows: to be determined

Shielding Effectiveness:

fix windows - attenuation of 46dB in the range of 20kHz to 3GHz
openable windows - attenuation 40 dBin the range of 20kHz to 3GHz



EMC FILTERS

EMC filters - designed for use in classified information protection in applications for electromagnetic shielding of rooms made in the Faradya cage technology. EMC filters intended to use for separate high and low-current power lines and signal lines.

PESF U SERIES - 1 PHASE

Rated voltage - 250V AC
Current range - 6A ~ 200A
Working frequency - 50 / 60Hz
Attenuation in the frequency range
150kHz ~ 40GHz - 100dB

PESF U SERIES - 3 PHASE

Rated voltage - 400V AC
Current range -16A ~ 200A
Working frequency - 50 / 60Hz
Attenuation in the frequency range
150kHz ~ 40GHz - 100dB

PESF S SERIES

Usage:

AC / DC switch, telephone, fax, video monitoring, access control, alarm signals, air conditioning control.
Data transmission 100Mbit / s.

WAVES

TUBE WAVE

Introducing into screened rooms installation: gas, water, compressed air, etc.

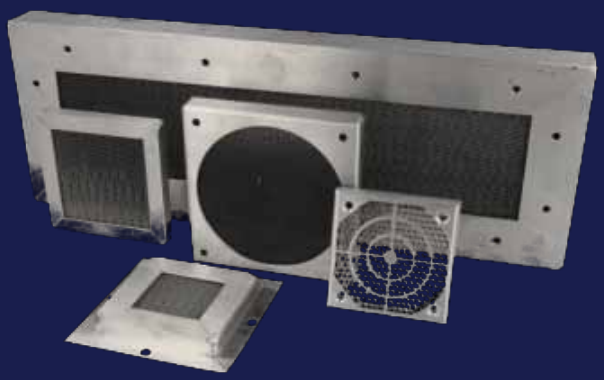
Inner Diameter: 0.5 ", 1", 2 "

FIBER OPTIC LINE WAVE

It enables the introduction of a fiber optic line into an electromagnetically shielded room.

VENTILATION WAVES

Honeycomb waveguides are designed to suppress EMI and RFI emissions from electromagnetic fields transmitted through ventilation ducts entering electromagnetically shielded rooms, made in the Faraday cage technology. Filters provide an average attenuation of 100 dB in the frequency range 100kHz - 8GHz
They are delivered in the following options:
- diameter of a single honeycomb cell: 3.2mm, 4mm, 5.2mm, 8mm.
- cell height: 12.5mm, 25mm, 50mm
- the largest size is 600mm x 900mm
- material: steel, aluminum, bronze beryllium alloy

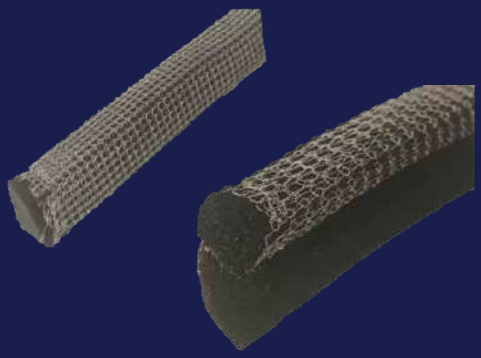


CONDUCTIVE GASKETS

FOAM GASKETS

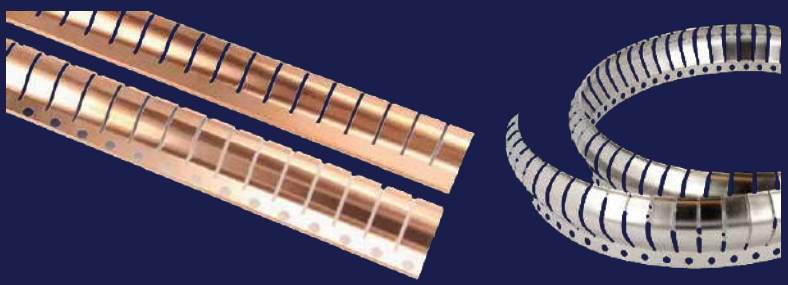
The standard gasket consists of a foam core covered with a highly conductive shielding material.
The seals may be fitted with a conductive adhesive strip.
Length 1000mm.

REINFORCED FOAM GASKETS



The gasket consists of foam
the core is covered with a mesh jacket made of steel. High strength and resistance to damage.
Length 1000mm.

METAL GASKETS



Beryllium-copper gaskets are designed to fill the gaps between two conductive surfaces.
They can be used to seal doors, windows, lockable enclosures, electromagnetically shielded, etc.
The gaskets ensure tightness at the level> 110 dB, in the frequency range of 100KHz -40GHz
High stress relaxation resistance and corrosion resistance.

OTHER SHIELDING MATERIALS

COPPER WADDING

Copper wadding is intended for filling gaps in room screening applications made with Faraday cage technology.
Sealing made of copper wool significantly improves the resultant attenuation of the screen made.

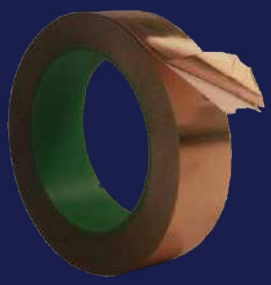
Cotton wool is delivered in rolls, weight 3 kg.

METAL SHIELDING MESH

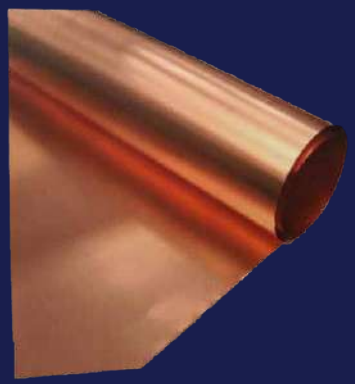
Metal shielding meshes can be supplied made of copper, bronze or steel.
Standard roll width 1 m.
Length on a roll of 30 meters.
Mesh sizes available:
40 meshes / 5 cm2 area
60 meshes / 5 cm2 area

200 meshes / 5 cm2 area

COPPER SHIELDING TAPES



Available in widths: 25mm; 50mm
Length in a roll 50 meters
Self-adhesive on conductive adhesive.



COPPER SHIELDING FOIL

Standard width: 1.35m
Thickness: 0.105mm
Roll length: 50m.

STEEL SHIELDING MESH AS 100

The ASE 100 mesh is intended for the production against electrostatic pollution. Effectively isolates against electromagnetic fields emitted by radio transmitting devices, electrical devices, transformers and transformer stations.

Properties:

- **indoor and outdoor use (under plaster and facade finishes)**
- **reduction of the intensity of electromagnetic radiation ≥99%**
- **40dB electromagnetic attenuation**
- **suppression of low-frequency and high-frequency electromagnetic fields**
- **frequency range 6MHz - 10Ghz**
- **high tensile strength**
- **product resistant to weather conditions and alkalis**
- **weight per unit area 165 g / m^2**
- **breaking strength ≥ 1750 N / 50 mm**
- **requires special grounding**
- **delivered in a roll, width 1 m, length 100 m**

SPEECH PROTECTION SYSTEMS

OMNIDIRECTIONAL AUDIO JAMMER - PROTEKTOR AG-1

PROTEKTOR AG-1 is a device used for effective protection of rooms (conference halls, offices, rooms for meetings etc.) against the possibility of eavesdropping on talks that take place in them and that constitute official, business or private secrets.

PROTEKTOR AG-1 emits inaudible acoustic signal, in fragmentary narrow bands of acoustic and ultra acoustic sound. The components of the emitted sound are mixed in a randomly variable way, with the aid of specially developed algorithm.

This signal acts physically on microphones of audio devices, causing their resonance, thus making impossible the clear recording or playing back of all kinds of received acoustic signals.

In particular PROTECTOR AG-1 blocks the operation of analogue and digital eavesdropping devices, dictaphones, voice recorders built into mobile phones, etc.

The emitted interfering signal has all round feature (360°) with the guaranteed jamming of 90% all types of listening and recording devices effectiveness within 2 m radius from the PROTEKTOR AG-1

Technical data:

The range of frequencies generated: 25,5 – 26,5 kHz
Signal level: 112dB
Guaranteed jamming radius(all types of surveillance devices): 2 m, 360°
Power: 12V/220V/230V 50HZ
Weight: 5 kg
Dimensions: diameter- 230mm; height 110 mm
Continuous operation time with battery power up to 2 hours

AUDIO JAMMER - PROTEKTOR LONG

The LONG PROTEKTOR is designed to jam the means of receiving and recording sound, such as: cell phones, voice recorders, listening devices, laser microphones, etc., in order to prevent their use as listening devices

PROTEKTOR LONG is a digital device that generates two independent paths of white, randomly changing, interference acoustic noise.

First emission track in the audible frequency band (AUDIO). The second path is emission in the inaudible frequency band (PIEZO) - near the ultrasound.

These signals cause resonance, while the microphones of listening devices prevent the reception and recording of human speech signals.

The Protektor Long set consists of four units controlled by a remote control integrated with the system.

Protector Long units should be installed in a room intended for safe conversations in the position shown in the photo below.

Set of 4 pcs. Protektor Long guarantees 100% security of human speech.

Inaudible PIEZO signal path
emission in the 25.5-26.5 kHz band.
Audible AUDIO signal path
emission in the 16Hz-20kHz band
AUDIO signal level adjustable in
the range of 30-70dB
Radio remote control.
Power supply: 230V-50HZ / 12VDC

RADIO FREQUENCY SIGNAL JAMMERS

8 BAND HIGH POWER 5G JAMMER FOR MOBILE NETWORK JAMM-8A

Deactivation of telecommunications transmissions in all simultaneously or selectively selected frequency bands.
Adjustable jam radius.
Continuous work in a 24/7 mode.

Total power: 164 W
Power supply: AC 110-240V / DC 27V 30A
Jamming radius: adjustable - up to 100m
Weight: 10kg
Dimensions: 560 x 235 x 96 mm
Antennas: 8 pcs, omni, length 500mm

Zagłuszane pasma częstotliwości:

BAND	FREQUENCY	OUTPUT POWER
5G, 4G LTE Low	758-830MHz	25W
GSM900	920-965MHz	25W
DCS	1800-1920MHz	20W
3G, UMTS	2100-2170MHz	30W
WiFi, Bluetooth	2400-2500MHz	20W
4G LTE High	2570-2690MHz	20W
5G	1450-1500MHz	20W
5G	3400-3800MHz	4W

FOR LAW ENFORCEMENT ONLY

JAMM-6 TELECOMMUNICATIONS TRANSMISSION JAMMER

Deactivation of telecommunications transmissions in all simultaneously or selectively selected frequency bands.

Continuous operation: battery up to 2 hours
power supply from 230V AC - 24/7
Total power: 30 W
Power supply: 27V DC / 230V AC
The jamming radius:5-20 depending on the mobile service provider's network condition
Weight: 0.6Kg
Antennas: 6 pcs, omni, length 120mm

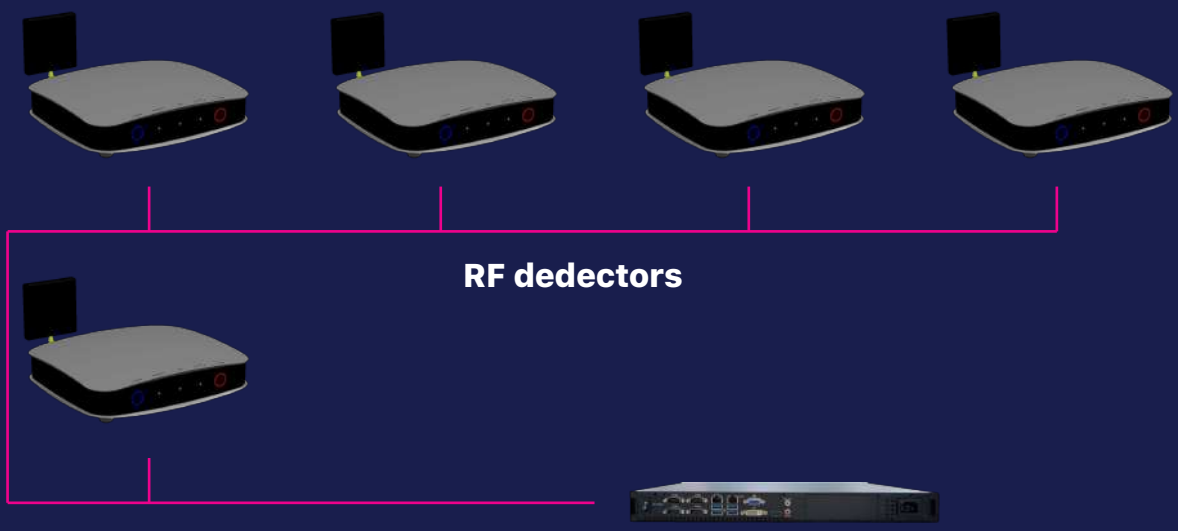
Jammed frequency bands:

BAND	FREQUENCY	POWETR AUTPUT
LTE Low, 5G	758-830MHz	5W
GSM900	925-960MHz	5W
GSM 1800	1805-1880MHz	5W
WCDMA 3G	2110-2170MHz	5W
WiFi, Bluetooth	2400-2500MHz	5W
4G LTE High	2600-2690MHz	5W

FOR LAW ENFORCEMENT ONLY

COUNTER SURVEILLANCE EQUIPMENT FOR ROOMS PROTECTION

RFPROTEC-300 CONSTANT RF DETECTION SYSTEM



RF dedectors

System controller

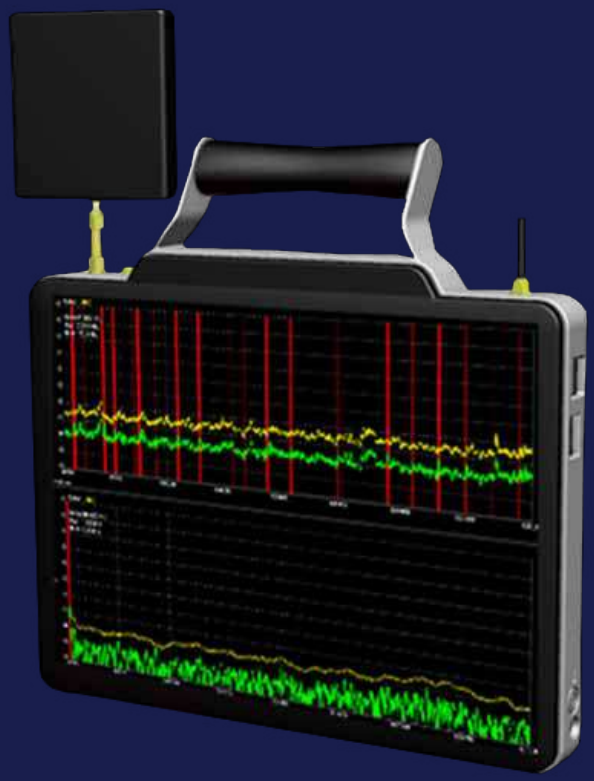
Central controller software: spectrum view from detection terminals, storage, transmission, analysis and management of statistical infor mation of the detected wiretap signal.

RFPROTEC -S is designed for simultaneous detection of surveillance signals, in a maximum of 300 rooms, with supervision from one central monitoring station.
One detection terminal can scan a room with an area of up to 150 m2.
The system enables the montoring spectrum RF in continuous mode 24/7.
RFPROTEC - S is especially recommended for the protection of servers, conference rooms, offices, etc.

Operating frequency range 25kHz-6GHz
Ultra-fast signal detection in up to 1 second
Working in Ultra Wide Band (UWB) technology - the ability to detect impulse signals
Fully automatic detection
Broadband FM / Narrowband FM / AM audio demodulation
NTSC / PAL / SECAM video demodulation
1kHz resolution

RFPROTEC-M MOBILE RF DETECTOR

RFProtec-M is mobile, automatic
dedicated RF spectrum analyzer
for ad hoc anti-eavesdropping monitoring
one room, in 24/7 operation.
The advantage of RFProtec-M is portability
him at any time from the room
to the room - depending on the degree of risk
loss of protected information.
Using RFProtec-M does not require connection to
LAN or Ethernet.



Working frequency range: 20MHz - 6GHz
Sensitivity: -100dB
Resolution: 6.25 Hz
Ultra-fast signal detection in up to 1 second
Working in Ultra Wide Band (UWB) technology - the ability to detect impulse signals
Fully automatic detection
Broadband FM / Narrowband FM / AM audio demodulation
NTSC / PAL / SECAM video demodulation
Power consumption: 8.2 W
Power supply 230 V AC
Dimensions: 271 x 58 x 274mm
Weight: 2.7 kg

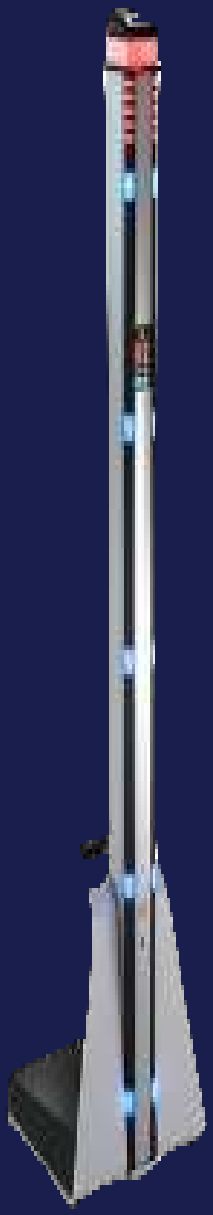
EQUIPMENT FOR EXAMINING PEOPLE ENTERING TO SAFE ROOMS

ELECTRONIC DEVICE DETECTOR CELLSENSE PLUS

The Cellsense Plus detector is recommended for monitoring people entering meetings to safe rooms

Cellsens Plus is designed to detect electronic devices (passive, active), e.g. mobile phones, voice recorders, radio transmitters and receivers, etc., regardless of the degree of their miniaturization, and to detect dangerous metal (ferromagnetic) objects: firearms and white weapons.
The detector does not detect non-ferromagnetic metals (for example jewelry is indifferent to him).
The detector is a passive device that does not emit electromagnetic field.

Detection zone: radius up to 1.5 m
Automatic calibration to the working environment.
Immune to interference (e.g. caused by through metal and electric objects located, near his workplace).
Alarm signaling with light and sound.
Installation: free-standing device - mobile or wall-mounted - stationary.
Adapted to work outdoors in extreme weather conditions
Dimensions: 188 x 13 x 8 cm
Weight: 9 kg
Power supply: 230V AC or from the internal rechargeable battery 12V DC
Battery operation time - up to 16 hours
Power consumption: 20W



ELECTRONIC DEVICE DETECTOR CELLSENSE ULTRA

Cellsense Ultra is a four-zone detector designed to detect electronic devices (passive, active), e.g. mobile phones, voice recorders, radio transmitters and receivers, etc., regardless of their miniaturization level, and to detect dangerous metal (ferromagnetic) objects: firearms and white weapons .
The detector does not detect non-ferromagnetic metals (e.g. jewelry is indifferent to it).
The detector is a passive device and does not emit any field electromagnetic.

Technical data:
Detection zone: radius up to 1.5 m
Four detection zones
Automatic calibration to the working environment.
Resistant to interference (e.g. caused by metal and electric objects in the vicinity of his workplace).
Alarm signaling with light and sound.
Installation: free-standing (portable) or wall-mounted
Adapted to work outside - in extreme weather conditions
Adapted. To work in the LAN network and operate from the level of a cooperating computer.
Dimensions: length 188 cm, width 13 cm, thickness 12 cm
Weight: 12kg
Power supply: 230V AC or from an internal rechargeable battery; working time with battery - up to 16h
Power consumption: 20W

CABINET X-RAY SCANNER TR-15

The TR-15 X-ray scanner is recommended for checking people entering meetings in anti-eavesdropping rooms.

The TR 15 scanner is designed for checking hand luggage, contributed by controlled persons.
Enables effective and quick detection of electronic devices, which can be placed in letter items, parcels, press files, folders and packages of documents and hand luggage.
Resolution 36AWG
Steel penetration up to 30mm
X-ray generator 70kV
240V power supply
LCD 19 "1280x1024 pixels
Diffuse dose measured outside the enclosure and <1.0μSv / h
The device is safe for films and magnetic data carriers.
Dimensions: 1804 x 576 x 589 mm
Weight 220 kg
Inspection chamber dimensions: 632x569x509mm
Imaging area: 480 x 480mm

Useful functions: automatic imaging of overexposed objects, 16 x zoom, functions for informing the operator displayed on the screen, automatic color adjustment, automatic hazard alarm, negative image display, pseudo-color (giving organic and inorganic substances different colors, automatic detection of hazardous substances in powder form, automatic enhancement and sharpening of edges in the displayed image, automatic adjustment of image contrast and brightness, interactive operator training program, archiving selected images in memory, printing selected images, adapted to work in the LAN network, compatible with the Wi-Fi protocol

X-RAY SCANNER EI 5030A

The EI 5030A X-ray scanner is recommended for checking people entering meetings in anti-eavesdropping rooms.

It enables efficient and quick detection of electronic devices that can be placed in letter items, parcels, press files, folders and packages of documents and in hand luggage.

Inspection tunnel dimensions: 505 mm (W) × 305 mm (H)
Conveyor belt speed: 0.2 m / s
Conveyor belt and double-sided detection
Permissible load on the conveyor belt: 100 kg
Resolution: 38AWG for ØD0.101mm wire
Penetration: steel up to 5mm thick
Beam Direction: Vertically Up
Radiation source: 70kV
Cooling: continuous
Diffuse dose measured outside the enclosure and <1.OμSv / h
The device is safe for films and magnetic data carriers
Radiation detector: L-shape photodiode
Monitor. 1024 X 768 color, high definition
Image display modes: B / W, color, pseudo color
Organic / inorganic segregation
Color / B / W image transformation, negative, edge enhancement, scalable levels greyscale, recall images, highlight suspicious objects, image recovery
Shades of gray: 4096
Image processing: 24bit real-time
Saving images .: 20,000 real-time
Zoom: up to 16 x smooth

Utility functions: counter of scanned objects, display of the current configuration, windowing of the monitored area, setting an individual operator code, continuous operation mode with automatic luggage control, safety switch, network diagnostics, device operation time counter, x-ray generator operation time counters, 230V AC power supply.

ELECTRONIC DEVICES DEPOSITORS

STATIONARY / MOBILE DEPOSITOR

The depository is intended for the individual deposit of electronic devices, which are not allowed to be brought into the room protected against eavesdropping - (mobile phones, voice recorders, laptops, pendrives, etc.)
The depositor can be made in a stationary version in the form of a hanging or standing cabinet, and in a mobile version - a cabinet placed on a four-arm circular rack with a position lock.
The lockers are locked in the Master-Key system.
Each of the lockers is numbered with a user key assigned to it.
The boxes are made in two sizes: small - for depositing mobile phones and other small electronic devices, large - for depositing laptops.
Number of boxes - according to the order.
Finish - natural venee.

DESKTOP DEPOSITOR

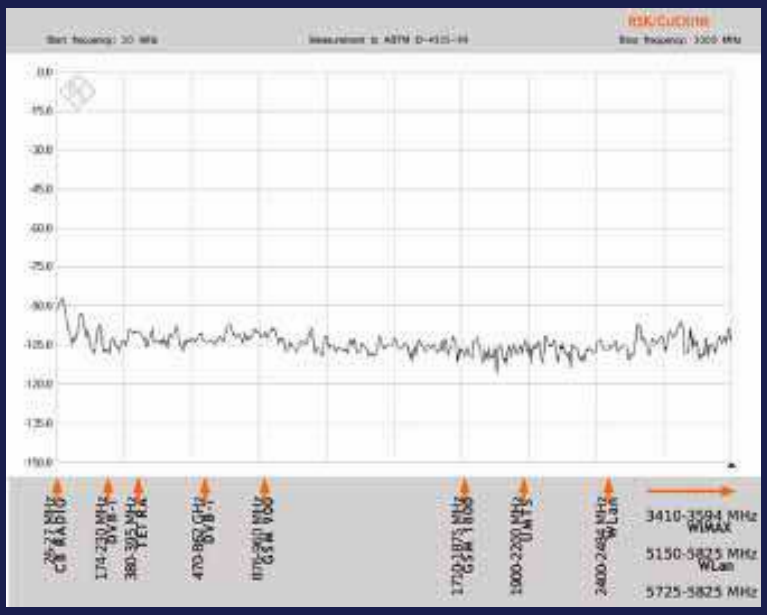
The desk depositor is intended for temporary storage of phones during meetings. The depositor emits an ultrasonic interfering acoustic signal that blocks the microphones of the cell phones placed in it.

It is not possible to make an audio recording or transmit a call signal.

Emission type:
ultrasonic at inaudible frequencies.
Dimensions: 262 x 78 x 82 mm
Weight: 500g
Power supply: USB 5V, Li-Ion battery, 3.7V, 6800mA / h
Continuous work time: up to 12h
Capacity: up to 4 mobile phones.

CELL PHONE RF SHIELDED CASE

The compact shield case for mobile phones is the most effective solution for blocking, for example, GSM, WiFi, Bluetooth and other wireless communication standards. The average attenuation over a wide frequency range is 100 dB. See the attenuation table below.
The mobile phone carried in the case cannot be tracked or intercepted.
The case allows you to store payment cards and personal documents. It fully protects against unauthorized scanning.
If you want your mobile phone to be safe in times when you have no control over it, you can seal it.



Dimensionally adjusted for each type of mobile phone.
The case is made of natural leather.
Available in black or brown.

SHIELDED BOXES

SHILDED BOX PSB 23

External dimensions 430x430x250 mm
Internal dimensions: 330x330x160 mM

Weight 22Kg

The shielded boxes are intended for depositing electronic devices such as mobile phones, radio receivers and transmitters, etc., which, if not deposited during meetings, can be used to obtain protected information.
The boxes are electromagnetically and acoustically shielded.
The electromagnetic shield completely limits the revealing emissions of the deposited transmission means.
The soundproofed acoustic insulation reduces revealing audio emission at a radius of more than 4 m from the box.
The range of electromagnetic tightness: 100 kHz - 10 GHz
Electromagnetic shielding level: 75dB for 2.4GHz; 70dB for 5.8GHz (average 70dB)
Acoustic screening level: average 50dB in the range of 300Hz- 6000Hz

SHIELDED BOX PSB 12

Outer dimensions 240x390x217 mm
Internal dimensions: 224 x 320 x 162 mm
Weight 2 kg

DETECTION AND LOCATING EQUIPMENT

MULTIDETECTOR MERAS-4

1. 2. 3. 4. 5.

Multi-detection system for detecting surveillance eavesdropping devices.
Detects and signals active and passive listening devices, including in particular:
analog and digital micro radio transmitters, means of digital communication (mobile phones in all data transmission ranges), microphones, infrared transmitting devices, laser microphones, video cameras. Checks stationary electric, LAN and telephone lines.
Detection probes:
1. probe for the detection of active and passive listening devices
2. probe for detecting video cameras, checking electric lines, LAN
3. probe for detecting and locating wired microphones
4. probe for checking telephone lines
5. Probe for detecting infrared transmission, laser microphones.
Alarming: sound signal, visual.
Alarm recording and statistics.
Frequency range: 10kHz- 8GHz
Dynamic range: ≥ 80dB
Demodulation: RF, WFM, NFM, SC
Sensitivity: - 60dbm
AC 230V power supply; DC12V

OSCOR BLUE

OSCOR Blue is an electromagnetic spectrum analyzer.
It is designed to detect and locate electromagnetic infiltrating signals, including: detecting and analyzing radio transmission signals, testing signal propagation in wireless networks.

Supported frequency range:
10kHz - 24GHz
Average noise level display :
- without preamplifier: -100 dBm
- with a preamplifier: -110 dBm
Sweep speed: 24 GHz / s
Preamplifier: DC - 8 GHz = 10dB
Attenuation: DC-24 GHz = 0 dB, -10 dB, -20 dB, -30 dB
Dynamic range: min / max: 90 dB
SFDR: 80 dB
Types of demodulation: AM, FM
Filters: 800kHz, 200kHz, 12.5kHz, 6.25kHz, 2kHz
Subcarrier filtration: 6.25kHz, 12.5kHz, 200kHz
Headphone / headphones output
Speaker: on-board
NTSC / PAL / SECAM standards supported
AM, FM, video demodulation
Filters: 12.75 MHz, 6.375 MHz
Subcarrier filtration: 6.25kHz, 12.5kHz, 200kHz
Dimensions: 292 × 335 × 76mm
Weight: 4.4 kg

ORION DE LUXE

Detector of non-linear junctions, designed to detect and locate active and passive surveillance devices.

	antenna 2,4	antenna 900
Frequency range:	2,404 GHz - 2,472 GHz	905 - 925 MHz
Maximum power:	3,3 W	1,4 W

Digital frequency modulation in a bandwidth of 1.25 MHz
Control: automatic, manual
Transmission channel selection: automatic, manual
Transmitting antenna polarity change: cyclic
Reception of the 2nd and 3rd harmonics: simultaneous

	antenna 2,4	antenna 900
Range for the 2nd harmonic:	4 - 5GHz	1810 - 1850 MHz
Range for the 3rd harmonic:	7, 121- 7.416 GHz	2715-2775 MHz

Sensitivity for both harmonics: -140 dBm -130 dBm
Correlation: digital
Cyclic change in receiving antenna polarity
Display: touch screen
Battery: 2 × Li-Ion
Battery charging time: 2.5 hours
Continuous operation time: up to 4 hours
Charger: 100-240 V AC, 50-60 Hz

Probe dimensions: 59 × 9 × 7.5 cm
The dimensions of the handle: 40.6 - 129.5 cm
Total maximum length: 147 cm
Weight: 1.6 kg

TALAN 3.0

Detector for the analysis of telephone lines and VoIP systems.

Destiny:

- analysis of Internet VoIP systems

- detection of infiltration devices in lines.

Spectrum Analyzer:
Double conversion superheterodyne receiver
Frequency range: 30 kHz - 85 MHz
Scan time: 2 s
Scanning step: 1 kHz
Bandwidth: 18 kHz
Sensitivity: -100 dBm

Broadband detector:
SMB antenna input, up to 8 GHz
Line testing in the range of 100 kHz to 600 MHz
Sensitivity: -65 dBm
Constant component generator
DAC, optically isolated, digital, high voltage
Modulation: DC voltage or variable sine wave (10 Hz - 300 Hz)
Maximum output voltage: ± 80V

Audio chip
Frequency range: 20 Hz - 20 kHz
System amplification: up to 80 dB
Digital Gain Control: AGC
Analog filter: 300 Hz - 3 kHz
AC adapter: 15 VDC @ 3A / 100-240V AC, 50-60 Hz
Battery: Li-Ion
Continuous work time: 4-6h
Weight:: 2.7 kg

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