

# COUNTER SURVEILLANCE



PKI ELECTRONIC INTELLIGENCE GmbH GERMANY

**PKI 4100**

## Rapid Deployment Spectrum Analyser

**PKI 4100** is one of the most recent developments of our counter-measures specialists. It is a portable counter-surveillance system for analysis of radio frequency surveillance. As an intermediate field counter measure it can monitor several rooms at the same time. It is easily programmable, with results stored for repeatability and future appraisal, with a full A4 report printout of text and graphical display in line or bar. It allows a novice user with a modest background in radio scanning to be operational in 30 minutes and to produce a fully documented predetermined scan. **PKI 4100** is not to be confused as near field, one room at a time, equipment. It provides rapid spectrum analysis, with additional spectrum analyser functions. It can readily identify clandestine transmissions including SMART spread spectrum devices, and display video transmissions at "picture in picture". The complete system is fully autarkic with integrated rechargeable battery and mains power supply. Its software on Windows basis is professionally designed especially for electronic counter measures. The video capturing system allows the operator to determine the type of video transmission detected. The captured video image is displayed, picture in picture, on the laptop screen, and can be stored for further analysis and playback.

The **PKI 4100** features mains and line monitoring for cable / telephone line.

**Specifications:**

- Software facilities incl. automatic save of scans, or once every hour for an unattended operation comparing the files routine for additions and omissions, possible threat mode for continuous unattended operation, with alarm manual tune mode spectrum analyser mode
- Frequency range 10 KHz to 3 GHz

- Internal rechargeable battery
- High speed scanning
- Video interpretation and display
- Mains and line / cable monitoring
- Auto save for unattended RF spectrum time profiling
- Possible threat warning
- A4 printout

**PKI 4200**

## Non Linear Junction Detector

Remote controlled transmitters and devices which are switched off, cannot be found by any counter surveillance equipment based on radio scanners. The solution is a debugging device independent from any emission of radio frequencies. Even before using a new room for conferences or after installations, respectively maintenance operations in the room, a basic sweep is absolutely necessary to avoid monitoring by planted devices. **PKI 4200** does not only detect active bug devices but also those which have been switched off. The extremely lightweight unit (only 1.8 kg) is a Third Harmonic Junction Detector and important facility for discriminating between false and real targets. The coloured LED display simply shows left GREEN for false and right RED for target. In addition to the customary Geiger audio indicator, the unit also features AM and FM demodulation modes. Direct listening via headphones is possible.

**Specifications:**

- Fundamental Frequency: 888 MHz
- Maximum RF Power: 300 mW
- Analysed Harmonics: 2-nd and 3-rd
- Controls: ON/OFF, Volume, Range, Harmonic Selector, Tone-AM FM Selector, Squelch
- Dimensions: 210 x 145 x 45 mm
- Dimensions Antenna: 160 x 40 x 720 mm
- Weight: 1,8 kg
- Detects all types of bugs
- 2-nd and 3-rd harmonic analysis
- Switchable RF power
- Direct listening facility



**PKI 4205****HF-Measuring Device**

This HF- device measures reliably HF-radiation of mobile phones, DECT- wireless phones, flight security radars, WLAN/Bluetooth and microwaves. It is perfectly designed for measurement of pulsed HF-radiation. The results are measured in  $\mu\text{W}/\text{m}^2$ . **PKI 4205** offers easiest handling. The logarithmic-periodic antenna has a very good bearing and can perfectly be used for BFM. Measurements are shown on the large 3.5 digit LCD display. An acoustic signal proportional to field strength can be turned on. (sound effect as per our Geiger counter).

**Specifications:**

- Frequency range: 800 MHz – 2.5 GHz
- Field strength: 1-1999  $\mu\text{W}/\text{m}^2$
- Minimal resolution: -50 dBm
- Precision:  $\pm 6$  dB ( $\pm 9$  digit)
- Power supply: 9V battery
- Operating time: 10-12 h
- Dimension measuring device: 74 x 225 x 32 mm
- Dimensions antenna: 120 x 250 x 30 mm

**PKI 4210****RF-Finder incl. Listening Receiver 1 MHz - 3 GHz**

With this bug detection device you cannot only locate tapping devices but also determine transmission frequencies and listen to conversations.

The field strength, as well as the frequency, are shown on the LCD display in 100 Hz steps. This device helps you to detect room, phone, GSM or video transmitters etc. quickly and eliminate them. A successful defence system prevents you from trouble.

**Specifications:**

- Sensitivity: 0,56 $\mu\text{V}$  (12 dB SINAD)
- Power supply: battery
- Loudspeaker: built-in
- Operating temperature: -10°C bis 60°C
- Antenna: 50 Ohm (BNC)
- Weight: 890 g
- Dimensions: 145 x 140 x 40 mm
- Comes with charger

**PKI 4215****Bug Detector 1 MHz - 7 GHz**

In order to trace a tapping device you need a professional, easy-to-operate locating device which measures the electric field strength of the tapping device. This can be measured because the field strength of the eavesdropping unit is stronger at 10 - 100 cm than local transmitters. The sensitivity is adjustable by potentiometer. The acoustic and visual display changes when approaching the tapping device which allows a quick location of AM or FM, analogue or digital tapping devices. The acoustic alarm can be switched off and be replaced by vibration alert.

This allows totally silent location even of mobile phones or remote controls. The wide band antenna offers the necessary sensitivity for the large frequency range of the **PKI 4215**.

**Specifications:**

- Frequency: 1 MHz to 7 GHz
- Power supply: 4 x 1,5 V AAA Alkaline battery
- Display: LED bar, for visual indication
- Dimensions: 120 x 60 x 30 mm
- Weight: 180 g
- Antenna socket: SMA-plug

**PKI 4220****Detector for Wireless Camera Systems and WLAN Transmitters**

Wireless cameras, WLAN networks, Bluetooth devices and audio/video transmitters, all use different frequencies and modulations within the license-free frequency range. The **PKI 4220** has especially been developed by us, in order to locate such devices. The working range of this detector is extremely versatile, from detecting concealed video systems, finding WLAN hot spots, localisation of unauthorized Bluetooth and WLAN devices, to measuring the radiation of video transmitters in the 2.4 GHz range. The **PKI 4220** is able to comply with all these

requirements. It is equipped with a very efficient directional antenna that allows exact bearing within a range of approximately 5 m. Optical and acoustic signs indicate the signal strength. The use of the **PKI 4220** is most easy – just turn it on and start searching spaces.

**Specifications:**

- Power supply: 9 V battery
- Frequency: up to 2.45 GHz
- Power consumption: 60 mA
- Range: up to 5 m in open



**PKI 4230**

## Radio Eavesdropping Protector

This protector can be used to give real-time protection in meeting rooms, boardrooms etc. against the threat caused from radio eavesdropping devices. After a first swept of the meeting room for eavesdropping devices, the system can be deployed to ensure that no RF interception device is activated during the meeting. This system is available in 2 versions:

- a fully portable solution including a sensor, a semi-ruggedised laptop (with software) and power supplies housed in a smart briefcase
- a semi-deployable solution comprising a sensor, a semi-ruggedised laptop (with software), power supplies, sensor tripod and system carrying case

**Specifications:**
**Broadband detector (channel A)**

- Frequency: 10 MHz to 2500 MHz
- Sensitivity:  $\geq -60\text{dBm}$
- Dynamic Range:  $\geq 50\text{dB}$
- Detector algorithms:  
Video (PAL, NTSC), GSM, DECT,  
802.11 g(WiFi), Bluetooth, 3G (UMTS)

**Broadband Detector (Channel B)**

- Frequency: 2400 MHz to 2483.5 MHz
- Sensitivity:  $\geq -60\text{dBm}$
- Dynamic range:  $\geq 50\text{dB}$
- Detector algorithms: Video (PAL, NTSC), GSM,  
DECT, 802.11g (WiFi), Bluetooth, 3G (UMTS)

**Harmonic Receiver (Channel C)**

- Frequency band 0:  
12,8 MHz to 2500 MHz (approx.)
- band 1: 2500 MHz to 5000 MHz (approx.)



band 2: 5000 MHz to 7500 MHz (approx.)  
band 3: 7500 MHz to 10000 MHz (approx.)

- Resolution: 8 kHz
- Sensitivity:  $\geq -50\text{dBm}$  (10dB SNR)
- Dynamic range:  $\geq 50\text{ dB}$  (noise floor to P1dB)
- Sweep rate: band 0,1 , 2 and 3 approx.  
every 250 mS

**Sensor Inputs & Outputs**

- External power: 2,5 mm centre positive
- Network: RJ45, Ethernet
- Alarm outputs: green, blue, red LEDs,  
audio signal

**Sensor power**

- External power: 12V DC @ 4A, reverse polarity,  
protected against overvoltage

**Sensor mechanical**

- Sensor size: 280 mm x 200 mm x 110 mm
- Sensor weight: < 2,5 kg

**Sensor approvals**

- EU EN 300 440-1, EN 301 489-3
- FCC Part 15B, unintentional radiators

**PKI 4250**

## Non Linear Junction Detector

**PKI 4250** Non Linear Junction Detector is designed to detect various kinds of electronic devices containing semiconductor elements. Flooding of suspected areas or targets with spectrally pure microwave RF signals locate eavesdropping devices, microphone amplifiers, audio recorders etc. - both in switched-on and switched-off mode. Analysing both 2-nd and 3-rd harmonics returned and varying on the materials with the different metallic junctions and semiconductor junctions return, gives the operator a clear indication of the source of any reflected signal. Due to the use of different formats of modulation for fundamental signals there is a possibility not only to detect radio transmitting devices, but also to define their types by listening to them.

- Manual adjustment of radiation power
- Minimised back and side directional lobes
- Built-in loudspeaker
- possibility to connect headphones
- circularly polarised antenna reduces  
search time and improves reliability



- Detection of electronic-containing devices
- High sensitivity
- 2 W RF power
- Side directional lobes

- power supply from both rechargeable  
battery and mains power

**Specifications:**

- Fundamental Frequency  
890 - 895 MHz
- Radiation Mode Continuous
- Automatic tuning step size  
0,5 MHz
- Analysed Harmonics 2-nd and 3-rd

- Maximum RF Power 2 W
- Receiver sensitivity  
Not worse than  $-130\text{ dBm}$
- Dynamic Range of receiving  
section Non less than 75 dB
- Indication Audible and visual  
(bar indicator)
- Power supply 12 V Li-Ion rechargeable  
battery or mains power
- Operation Time 2,5 hrs



**PKI 4275****RF Transmitter Detector with Global Analysis Software**

For searching of active RF listening devices, speed is essential i.e. minutes or even seconds could potentially be worth tens of thousands of Euro to an eavesdropper. Important meeting areas are exposed to the danger of electronic eavesdropping. The detection and location of illicit RF transmissions requires quick and silent action to identify and locate listening devices on the radio spectrum without alerting potential eavesdroppers. **PKI 4275** makes the detection, identification and location of radio transmitters quicker and easier than ever before. Tuning a radio manually into every station on the FM bandwidth requires a very long time. With the **PKI 4275** you can cover the whole FM bandwidth at a 500 times wider range, all in less than 5 seconds. The spectral Global Analysis Software adds a further dimension to identifying listening devices. Remote control via telecommunication network and data storage on disk for further analysis are implemented.

**Specifications:**

- Frequency range: in two bands –  
DC to 10 MHz and 10 MHz to 5 GHz
- Sensitivity: > -70 dBm at 10 dB SNR for 1 KHz
- Input 2nd order intercept point:  
-2 dBm to +60 dBm
- Input 3rd order intercept point:  
-13 dBm to +39 dBm
- Input 1 dB compression point:  
-20 dBm to +10 dBm
- IF rejection: 50 to 85 dB
- Spurious free dynamic range: 74 dB
- Dynamic range: 98 dB
- Battery life: approx. 5 hours continuous work
- Dimensions: approx. 312 x 70 x 252 mm
- Weight: approx. 4 kg

**PKI 4300****Advanced Telephone Tapping Detector**

The **PKI 4300** is the most advanced network detector available in the world market, based on a highly qualified time domain reflectometer compatible with all types of telephone, data and coaxcables. The full kit includes RF line detection and voltage measurement enabling any changes in the characteristics of the cables to be analysed and fault plus location to be identified. The **PKI 4300** can provide details like size of the object due to the precision of the reflected signal. All traces and parameters are displayed on the builtin high resolution LCD screen. With the ability of the **PKI 4300** to integrate with computer networks not only phone and wire tapping successfully can be controlled but also computer network espionage. A Window based software is available in option for complete data analysis and comparison.

**Specifications:**

- Pulse widths: 1, 2, 5, 10, 20, 50 ns
- Accuracy: 0.01 %
- Minimum distance: 0 m with adapted lead
- Resolution: 0.5 % of displayed range
- Measuring range: 0...100, 200, 500, 1000, 2000 and 5000 m
- Dynamic response: up to 70 dB
- Memories: 12 reflectograms
- Interface: RS 232
- Display: 256 x 128 pixel
- Power supply: NC-battery / 12 VDC
- Dimensions: approx. 379 x 399 x 207 mm
- Weight: approx. 5,6 kg
- Exact location of unauthorized objects
- Full comparison analysis
- 12 digital reflectogram memories
- Very high resolution
- Great accuracy
- PC and printer interface

**PKI 4380**

## Interception Receiver with Spectrum Scope

This monitoring receiver is designed for capturing of signals, for spectro analysis as well as for recording of received signals. It covers a range of 0,005 to 3335 MHz at a frequency stability of  $\pm 0,05$  ppm at 25°C. **PKI 4380** is appropriate for professional use and also allows reception for P25-digital modulation. The multifunctional spectrum scope allows scanning between two constant cut-off frequencies. Due to its numerous features this device is absolutely exceptional, especially e.g. the roofing filter, a digital ZF-filter, a 2-point-notch-filter, a FSK-speech synthesizer, a multi-scan-function etc. **PKI 4380** is equipped with USB-socket for external storage on external USB-devices. Transfer of captured NF-signals and configured data files from the receiver resp. from a PC is possible. Upgrades are effected by USB-memory.

**PKI** will be pleased to submit offers for interception receivers up to 12 GHz on request.


**Specifications:**

- Frequency range: 0,005 to 3335 MHz
  - Operating systems: USB, LSB, CW, FSK, AM, FM; WFM, P25
  - Number of data storage: 1220
  - Antenna sockets: PL (SO-239, 50 Ohm for kW), RCA (500 Ohm for kW), 2xN (50 Ohm)
  - Operating temperature: 0°C to +50°C
  - Frequency stability: better than  $\pm 0,05$  ppm (at 25°C)
  - Power supply: 100/120/230/240 V AC
  - Power consumption: less than 100 VA
  - Dimensions: 424 x 149 x 340 mm
  - Weight: 20 kg
  - Accessories: mains cable, grip handle, spare fuses, ACC plug, RCA-plug, DC plug, plug for loudspeaker
  - Intermediate frequencies: kW 58,7 MHz (1. ZF), 10,7 MHz (2. ZF), 48,0 kHz (3. ZF), VHF/UHF 278,7 MHz and 778,7 MHz (1. ZF), 58,7 MHz (2. ZF), 10,7 MHz (3. ZF), 48,0 kHz (4. ZF)
- | Sensitivity:        | SSB, CW, FSK | AM          | FM          | FM 50K       | WFM         |
|---------------------|--------------|-------------|-------------|--------------|-------------|
| 0.100-1.799 MHz     | 0,5 $\mu$ V  | 6,3 $\mu$ V | -           | --           | --          |
| 1.800-29.999 MHz    | 0,2 $\mu$ V  | 2,5 $\mu$ V | 0,5 $\mu$ V | 0,71 $\mu$ V | --          |
| 30.0 – 2499,999 MHz | 0,32 $\mu$ V | 3,5 $\mu$ V | 0,5 $\mu$ V | 0,71 $\mu$ V | 1,4 $\mu$ V |
| 2500-2999,999 MHz   | 0,32 $\mu$ V | 3,5 $\mu$ V | 0,5 $\mu$ V | 0,71 $\mu$ V | 1,4 $\mu$ V |
| 3000-3335,000 MHz   | 1,0 $\mu$ V  | 11 $\mu$ V  | 1,6 $\mu$ V | 2,2 $\mu$ V  | 4,5 $\mu$ V |
- Dynamic range: 109 dB at 14,1 MHz

**PKI 4400**

## Portable Noise Generator

The **PKI 4400** is designed as an easily portable acoustic noise-generating unit, which can be carried in coat-pockets or briefcases, in order to protect sensitive conversations inside rooms. The **PKI 4400** Portable Noise Generator is very versatile, as it can be fixed on many different surfaces inside the room in order to protect sensitive conversations from being monitored. The typical application is found in conference rooms with critical areas like windows and non controllable adjacent rooms. It is suitable for walls, floors, ceilings, water- and/or heating pipes and windows. By means of the supplied 4 resonators, the unit creates a noise which, by its vibrations, disturbs every common microphone by overlapping the sound-waves of spoken words. The optimised voiceband noise masking reduces the effectiveness of eavesdropping devices such as contact microphones, wired microphones inside walls, battery operated audio transmitters or devices using mains power



supplies for operation as well as laser-/ microwave- and/or infrared reflections from windows. Any environmental masking easily is possible by using several units of the **PKI 4400** at the same location. The **PKI 4400** can be mounted to any smooth surface by the use of the provided suction cups or just placed in any critical area.

**Specifications:**

- Audio frequency range 300 Hz - 3 KHz
- Output sound level max. 92 dB at 1 m

- Power supply 2 x 9 V alkaline batteries or AC transformer
- Battery life typically 7 hours at 50% level, 2 hours at full level
- Size approx. 18 x 13 x 5 cm
- Weight approx. 350 g
- Includes carrying case, AC transformer

- Protection of sensitive conversations
- Suitable for walls, floors, ceilings and windows
- Easily portable in coat-pockets or briefcases

**PKI 4650** **PKI 4655****Wired Noise Generator, Wireless Noise Generator**

The technology of monitoring devices is rapidly increasing and detection and location of such devices is very hard to realize. Transmission frequencies of such items may vary nowadays from VHF- to upper GHz ranges. Additionally optical monitoring systems, like Lasers, Infrared Systems and Audio-Stethoscopes are in use. Therefore it is essential that government departments, as well as industrial companies protect themselves against such monitoring devices. For this purpose we have developed our **PKI 4650** and **PKI 4655**. With both systems an electronic generator creates a white and/or pink noise which is emitted via the resonators to the windows, doors or walls. The resonators can be placed and fixed by the supplied special mastics material. By means of these vibrations, such monitoring devices are interfered and an understandable transmission is impossible. **PKI 4650**, as the standard set, comes with the generator and four cable-connected resonators. **PKI 4655** uses the same principle but is independent from cable connections, as the resonators are battery-operated and each unit consists of an integrated generator and resonator. Each unit can be placed within seconds. Depending on room size, the number of devices can vary from one unit only to infinity. This white-noise generator especially is in use where members of conferences should not be aware of such protective actions.

**Specifications:**

- Power supply:  
**PKI 4650** 110/220 VAC  
**PKI 4655** 9 VDC Block battery
- Power consumption: max. 400 mA
- Dimensions: 95 x 29 x 37 mm
- Weight: approx. 130 g with battery
- Scope of supply:  
**PKI 4650**  
 1 x 2-channel noise generator

- 4 x Contact-resonators
- 1 x Mains power adapter 12VDC
- Set of adhesive mastics material
- PKI 4655**  
 generator combined with resonator, adhesive mastic material
- Cable length: 5 m

**PKI 4700****Hand Held Detector**

This handy and versatile detector can be used not only for the detection of listening devices but also wireless cameras and illicit mobile phones, that are for example used by unauthorised persons like in prisons etc. The transmitted field strength is indicated on a display as well as by a pitching tone. The nearer you approach to the object you wish to locate, not only the indicated field strength but also the tone pitch increases. Sound alarm of course can be switched off in cases where sounds must be avoided, as for example during sweeping of a room where active transmitters might be in operation. The sensitivity of reception is especially high within the frequency range of mobile phones and wireless video transmitters, i.e. between 0,9 and 5,8 GHz.

**Specifications:**

- Frequency range:  
 10 MHz – 5,8 GHz
- Alarm:  
 LED bar graph internal beeper  
 External vibrator (optional)
- Localisation: by tone pitch
- Display: LED
- Detection range:  
 up to 3 m depending on the signal
- Power: 9V standard battery

- Operating time: 5 hrs continuously
- Weight: approx. 350 g
- Dimensions: 7,5 x 14 x 2,2 cm

- Use for detection of spy cameras, mobile phones or bugs
- Frequency range up to 5.8 GHz
- Bar graph indicator for field strength
- Localisation also by tone pitch



**PKI 4710**

## Computer RF Detector

By this **PKI 4710**, a direct localisation of hidden monitoring transmitters and other unknown transmitting objects, whether room-, telephone-, GSM or video related devices, is guaranteed. For many years our team of experts has been concentrating on latest developments of detection devices in order to provide our customers with best possible products for each and every task. This highly sensitive but small and handy near-field detector allows transfer via cable of all received information onto a laptop and by another connection directly to a suitable scanner to get the sound. On both, the laptop and/or the optional scanner, the required adjustments and storage can be effected. The more you approach the suspicious object the more the beam-indicator on the **PKI 4710** will increase from left to right plus an audible alarm, additionally presenting the absolute correct frequency on its 10 figures LCD display. By all of these three indicators the localisation of such suspicious transmitting sources is most easy. We strongly recommend this device for any sweeping operation, as for example for the police for the fight against terrorism and criminal acts, or for special forces acting against each kind of espionage as well as for military and industrial security forces.

**Specifications:**

- Frequency range: 1 MHz to 3 GHz
- Resolution: 100 Hz steps
- Input sensibility: <25 mV at 12 dB SINAD
- Power supply: rechargeable battery with mains adapter
- Dimensions: 95 x 68 x 30 mm
- Weight: 220 g

**PKI 4720**

## Camera Detector

You are afraid of being monitored by hidden miniature cameras? In this case you should always have this handy camera detector measuring only 50 x 65 x 15 mm with you, in order to control if you are not monitored by any camouflaged cameras in your hotel, home, office etc. The **PKI 4720** traces hidden cameras within some minutes. Just turn it on and scan the wall surfaces through the round hole. The detector emits a pulsating red LED-light. The pulsating frequency is adjustable from 1 to 5. If there is a camera hidden somewhere, the pulsating red light will be reflected by its lens, even if its dimension is not more than 1 mm, no matter if the camera is active or not. Protect your privacy by using the **PKI 4720** for quick and easy control.

**Specifications:**

- Dimensions: 50 x 65 x 15 mm
- Weight: 40 g
- Power supply: rechargeable battery
- Charger: included
- Operating time: 5 hours per battery charge
- 6 x LED: pulsating, red, pulsating frequency adjustable from 1 – 5
- Battery charge indicator included





## PKI 4725

### Detector for Cameras and Bugging Devices

This device should always be included in your luggage. Either surveillance cameras, bugs or infrared diodes, the **PKI 4725** detects all wired and wireless units and thus protects you from being monitored anywhere. You can choose between optical alarm via LED-diodes, acoustic alarm via loudspeaker or silent alarm via vibration. This camera and bug detector is the indispensable partner for protection of your privacy.

#### Specifications:

- Range for laser detection: 10 cm - 10 m
- Range for high frequency detection: 5 cm - 10 m (depending on signal intensity)
- Sensivity: adjustable, „high“ increases

detection range, „low“ decreases detection range“

- Power supply: 2 x 1.5 V batteries type AAA
- IR-detection range: 920nm
- HF-detection range: 1 MHz – 6.5 GHz
- Optical lens: IR
- Dimensions: 108 x 48 x 18 mm
- Weight: 50 g



## PKI 4730

### Transition Control Device

Nowadays you can never be sure anywhere, as there are unlimited varieties of eavesdropping devices on the market. There has been an enormous development in interception technology (please see our catalogue). The new devices do not only use higher frequencies, but also totally different technologies, like GSM and GPS. Furthermore digital tapping devices are rating high meanwhile and everybody knows that it is difficult to locate them. Our **PKI 4730** allows reliable localisation of these devices. Integrated in a frame with interior dimensions of 1 x 2 m the device can be arranged before or under every front door. Now you can be sure that your interlocutor will not activate HF-eavesdropping devices without causing an alarm.

#### Specifications:

- Dimensions: 100x 200 x 25 cm
- Weight: 12 kg
- Locating frequency: 10 MHz – 6 GHz
- Power supply: 100 – 240 V AC, 50 Hz
- Alarm: optical or acoustical
- Detection range: up to 6 m, according to power of eavesdropping device
- Sensitivity: < 25 mV at 12 dB SINAD



## PKI 4735

### Active Eavesdropping Resistance

Often actions of foreign intelligence services have been planned long beforehand and are executed very professionally. Modern communication technology like GSM (see **PKI** catalogue), laptops and blackberrys facilitate spying attacks.

In order to meet such attack, a reliable security structure for protection against eavesdropping is of highest importance. This means active and passive eavesdropping resistance.

**PKI** works with experienced eavesdropping specialists using modern devices (see **PKI** catalogue) in order to detect different types of tapping devices.



#### Specifications:

- **PKI 4735** comprises:
  - inspection of telephone devices
  - inspection of local net work (current, computer)
  - examination of rooms by measuring devices
  - and visual devices qualified training courses
  - information about risks of radio communication

**PKI 4740****Passive Eavesdropping Resistance**

**PKI** develops, supplies and installs bugproof rooms worldwide. This reliable and durable protection against eavesdropping attacks is nowadays necessary for every conference room. Interference attacks are no longer limited to 100 m. Eavesdropping technology has been revolutionized by GSM technology (see **PKI** catalogue). The room screening system comprises HF-

screening and acoustic insulation including air conditioning, electrical installation and furniture. Screening is totally invisible for the user. Furthermore, we are prepared to supply bug-proof booths ready to use.

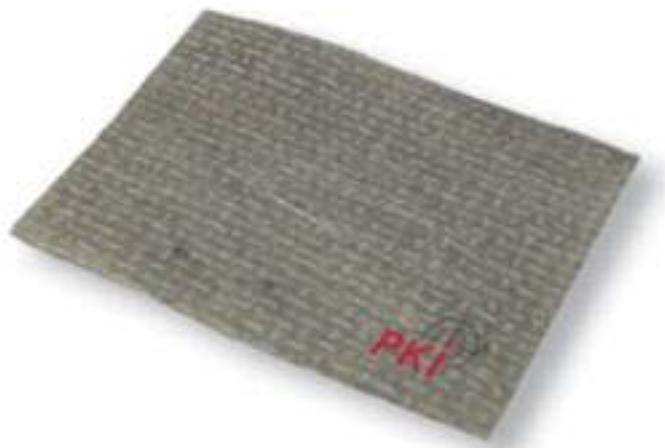
acoustic insulation  
power supply bug-proof  
air condition bug-proof  
furniture  
fire-alarm and fire extinguishing systems

**Specifications:**

- **PKI 4740** comprises electro magnetic screening

**PKI 4750****Architectural Room Screening**

With the **PKI 4750** series of room screening devices we offer a large range of products, architectural engineering, planning and know-how for worldwide government agencies and special task forces in order to prevent their own facilities from being monitored and to make sure that internal electronic works will be kept inside their rooms. The **PKI 4750** Architectural Room Screening integrates the RF-screening into the architecture of a new or already existing room being invisible to the users and others. Each single component, by its own, cannot guarantee a complete protection. Only the integration of compatible devices can realise this. Planning, construction, production and aftersales-service are combined in one hand by **PKI ELECTRONIC INTELLIGENCE**. Only with this complete service package attenuations of 40 or 60 dB at 10 MHz to 3 GHz can be achieved and guaranteed. For even higher requirements we use copper- or steel-sheets providing a damping of 80 dB up to 10 GHz. But as each single project needs to be evaluated



case by case it is essential to stay in close discussion with our customers and to find out which kind of electromagnetic screening is most suitable.

**Ask us for:**

- 1 Architectural Room Screening
- 2 Modular Room Screening Panels
- 3 Electromagnetic Screened Cages

- 4 Screened Tents for RF and EMV Measurements

- Communication and Security
- RF-screening up to 3 GHz
- Integrated screening in existing or new buildings
- Invisible to users and others