JAMMING SYSTEMS

PKI ELECTRONIC INTELLIGENCE GmbH GERMANY
Dear Customer,

For more than 10 years, PKI Electronic Intelligence GmbH has been providing a wide range of jammers for various applications. Although the technological achievements of modern wireless communication are substantial, there are certain issues where they become a problem. For example, when mobile phones are misused as igniters for explosives or when GPS devices are used to draw up an exact moving profile via internet.

Furthermore, it is sad reality that mobile phones are used to arrange criminal acts. According to press releases, nearly 4000 illegally used mobile phones have been collected in Berlin’s prisons during the last years. This results in a high estimate of unknown cases. The smuggling of objects and substances into prisons has never been successfully stopped, but PKI now provides a reliable technical solution for this problem regarding mobile phones. By using jammers, communication becomes impossible thus making the mobile phones useless. Even more, they can be traced and monitored in order to gain information. For VIP security, we provide powerful jammers for installation in cars which operate effectively against remote controlled blast compositions.

These devices are also designed for anti-terror operations and military convoys. But even if you like to carry on your business conversation undisturbed and want to be sure that no information gets outside, you might make use of the wide range of PKI jammers. As you can see, there are no limits! PKI Electronic Intelligence supports you in all sectors with a wide range of anti-terror devices. With our products, you have the chance to be one step ahead, just the way our customers were during the last 40 years.

Your PKI-Team
PKI MOBILE JAMMING SYSTEMS VEHICLE MOUNTED

Modular Design
The PKI modular jamming system can be scaled and adapted to any necessary application. Depending on available space and power, country of destination and customer specification PKI adapts the electronics and antennas to match given specifications.

Full Range Jamming
Frequencies can be covered from 20MHz up to 6000MHz using high sophisticated sweep generators which are capable of interfering analogue and digital transmissions. Depending on the requested power the number of incorporated units may vary.

Intensified Bands
Based on our experience on available remote controls of cell phones and other devices we incorporate additional units to improve the covered distance for well known frequency ranges.

Sweeping Technology
PKI „High Speed Sweeper“ show how precise the power amplifier are modulated. This avoids unnecessary technical side effects which could endanger the mission.

Power Supply
The high power modules of the HF-modules can be either powered by:
• Vehicle engine alternator
• Independent Generator
• Mains operation
For high power systems vehicle engine alternator, also improved versions (< 2 KW), might not be sufficient to source a system. Therefore we offer a build-in high power generator solution.

Cooling
Depending on the given environment of the country of operation, we offer separate cooling solutions for the electronics and driver compartment.

Antennas
All antennas are specially designed to the specific frequencies to broadcast.
We offer two options for the antennas:
• directional antennas, because they are much more effective to produce a „clean“ corridor along the convoy
• omni-directional antennas

Shielding
All high power jamming systems are equipped with special protection mechanism to avoid health damages to the driver and the operators. Even though the output power is in the official limits, we protect the car with special window foil to block any high frequency power from the antenna going inside the car. The complete car will be shielded like a Faraday cage.

Control and Monitoring
All controls will be placed in the driver´s compartment. The system is to operate, just by one button. For trained personnel it is possible to monitor all system parameters, function, temperatures and video surveillance from the operator seat.
The operator of the Jamming System gets an immediate warning if one of the components fails. He can easily see the location of the problem.

**Vehicles**

The optimum vehicles for mobile jamming systems vary due to power requirements. We are capable to adapt the electronics to most cars offering enough space. Ideally it is installed in long version vans or pick-up trucks. As option armoured cars or 4x4 vehicles can be equipped.

Vehicle Selection Criteria
- Top Speed
- Armoured
- Available Service in Country
- Size and appearance
- Emergency functions

**Communication**

For higher security we do not recommend communication between the vehicles. Every communication gap can be used to compromise the system. Usually, clients use acoustic or optical methods to communicate with running jammer systems. All cars can be equipped with PA systems, sirens, special horns and emergency lights. If requested, the end user can specify frequencies for communication.

**Video Surveillance**

The vehicles can be equipped with every kind of video surveillance for front, back or all-round view with regular cameras, day-night or thermal imaging systems. Different models of recording devices can be selected for long recording periods.

**Complete Solution**

PKI offers
- Customized development
- Small quantity production
- Delivery in time
- Service worldwide
- Training as requested
- Repair and Maintenance
- Documentation
- Test and Measurement Equipment

For system testing we will provide:
- Modern measurement equipment for all system specifications
- Field test equipment
- Training for the system and all measurement tools.

All devices are built from subassembly units, which can be interchanged or replaced in case of malfunction. Diagnostic tools for error analysis to assist the operating staff are included.
There is a so-called frequency table for every country. This table refers to Germany.

<table>
<thead>
<tr>
<th>Frequency (MHz)</th>
<th>Short Name</th>
<th>Power (W)</th>
<th>Range (km)</th>
<th>Description</th>
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<td>10</td>
<td>CB radio</td>
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<td>Europe signal</td>
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<td>230.0</td>
<td>DVB-T</td>
<td>Some 100 kW</td>
<td>50</td>
<td>digital TV</td>
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<tr>
<td>230.0</td>
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<td>Some kW</td>
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<td>digital audio broadcasting</td>
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<td>390.0</td>
<td>TETRA (DL)</td>
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<td>radio data transmission for various applications</td>
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<td>TV (UHF), digital TV</td>
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<td>800</td>
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<td>CT2 + (DL)</td>
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<td>1215.0</td>
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<td>1.215.0</td>
<td>GPS</td>
<td>50W</td>
<td>20.000</td>
<td>satellite navigation</td>
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<td>Microwave radio relay</td>
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<td>mobile radio relay, stationary and mobile</td>
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<td>50 W</td>
<td>20.000</td>
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<td>UMTS</td>
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<td>2.328.5</td>
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<td>-</td>
<td>-</td>
<td>USA Type</td>
</tr>
<tr>
<td>2.500</td>
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<td>-</td>
<td>-</td>
<td>EURO Type</td>
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<td>EURO Type</td>
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<td>2.483.5</td>
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<td>1mW – 100 mW</td>
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<td>Globalstar (DL)</td>
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<td>5.650.0</td>
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<td>5.920.0</td>
<td>10 kW</td>
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<td>flight security radar</td>
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<td>5.930.0</td>
<td>5.950.0</td>
<td>10 kW</td>
<td>50</td>
<td>flight security radar, weather radar, pilot radar</td>
</tr>
</tbody>
</table>
Jamming Systems

**Jammer Set**

There are always unforeseen events that must be eliminated immediately. For this reason, PKI assorted this set. For a prompt reaction, we considered it important to have certain jammers available.

**PKI 6730 Mobile Phone Jammer**

**PKI 6820 WiFi and Bluetooth Jammer**

**PKI 6840 12 Band Mobile Jamming System**

**PKI 6860 Audio/Video Jammer**

**PKI 6870 Mains Jammer**

**PKI 6890 GPS Jammer**

**PKI 6910 Two-Way Radio Jammer**

The specifications can be found under the respective PKI number. PKI jammers are easily operated. Plug on the antennas, connect the power supply, switch on. In case of several channels, control the power individually. Our jammers operate noiselessly and are designed for permanent operation.

**Mobile Phone Jammer**

This compact device, the PKI 6730 Portable Cellular Phone Jammer is designed for mobile use. Due to its small pocket size it can easily be hidden in clothing, handbags or any other personal belongings. It is powered by a rechargeable Ni-H battery for continuous operation of up to 90 minutes.

**Specifications:**

- Tx frequency for type A: 845 to 975 MHz
- Tx frequency for type B: 1785 to 2000 MHz
- Tx frequency for type C: 2100 to 2180 MHz
- Output power: +25 dBm / 300 mW
- Power supply: Ni-H battery 12 VDC / 1600 mA/h
- Weight: approx. 300 g
- Dimensions: approx. 110 x 62 x 30 mm (without antenna)
- Jamming Range: radius 5 - 8 meters
- Various frequency ranges available
- Keeps your conferences quiet and confidential
- Avoids cellular interruption
- 300 mW output power

**80W Mobile Phone Jammer**

This jammer provides ranges of up to 150 m which means that an area of approx. 70.000 m² is a mobile phone activity free zone when the jammer is activated. Furthermore PKI 6740 is applicable as a mobile device in a case with integrated 45 Ah rechargeable battery for 3-5 hours operating time. Each channel is individually variable regarding output power. An unique jammer for police and army operation.

**Specifications:**

- Frequency:
  - CDMA 845 - 894 MHz, 3 W output power
  - GSM 920 - 975 MHz, 3 W output power
  - DCS 1805 - 1990 MHz, 2 W output power
  - 3G 2110 - 2170 MHz, 2 W output power
  - WiFi 2400 - 2484 MHz, 1 W output power
- Power supply: 110 V AC or 220 V AC
- Total output power: 11 W
- Jamming range: radius 50-150 m (signal ≤ -80 dBm)
- Dimensions: 520 x 430 x 230 mm
- Weight: 2.5 kg

**Mobile Phone and WiFi Jammer**

We recommend our PKI 6750 jammer when offices or conference rooms have to be protected from eavesdropping. Its compact design provides stationary and mobile operation. The PKI 6750 covers not only frequency for mobile phones but also 2.4 GHz frequency for WiFi, Bluetooth and video transmission. Each frequency range can be controlled separately in order to achieve optimal adaptation to local networks. The PKI 6750 allows optimal tuning of transmitting power in order to restrict the operating radius to necessary premises. It is also possible to use directional antennas instead of the supplied omni-directional antennas. The operation of PKI 6750 is very easy due to its comfortable control elements.

**Specifications:**

- Frequency:
  - CDMA 845 - 894 MHz, 3 W output power
  - GSM 920 - 975 MHz, 3 W output power
  - DCS 1805 - 1990 MHz, 2 W output power
  - 3G 2110 - 2170 MHz, 2 W output power
  - WiFi 2400 - 2484 MHz, 1 W output power
- Power supply: 110 V AC or 220 V AC
- Total output power: 11 W
- Jamming range: radius 10 - 40 meters (-75 dBm at omnidirectional antennas)
- Operating time: without limit, works continuously
- Dimensions: 190 x 50 x 170 mm
- Weight: 2.5 kg

Catalogues are available for download at www.pki-electronic.com

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Portable Bluetooth, WiFi, Video Jammer

This pocket-sized device is the one and only solution for protecting conference rooms, schools, hospitals, court rooms, jails, military establishments, petrol stations, theatres, churches, mosques etc. Due to its minimized size it can easily be body-worn and disguised in clothing, handbags or any other personal belongings.

Specifications:
- Tx frequency for type A: 895/900 to 1000 MHz
- Tx frequency for type B: 1195/1200 to 1300 MHz
- Tx frequency for type C: 2395/2400 to 2500 MHz
- Output power: +25 dBm / 300 mW
- Power supply: Ni-H battery 12 VDC / 1600 mAh
- Weight: approx. 300 g
- Dimensions: approx. 110 x 62 x 30 mm (without antenna)
- Jamming Range - radius 5 - 8 meters
- Protects from unwanted remote controlled monitoring
- Covers every kind of Bluetooth, WiFi and video transmission
- Various frequency ranges available

PKI Individual Prison Jammer

The use of devices for mobile communication has become an inseparable part of everyday life. Besides its benefits, this technology also involves dangers. These devices allow uncontrolled communication for everyone using them. It is therefore necessary to control or to inhibit this communication in certain cases. So, these cell phones are not appreciated e.g. in prisons, military units, etc. and their use must be inhibited.

PKI developed different solutions for this challenge. Besides the suppression of communication in individual rooms, in individual buildings, it is also possible to isolate complete real estates from the communication with mobile phones. A wide variety of challenges requires versatile solutions. The PKI solutions are specific responses to your needs and we can offer you tailor-made solutions depending on your budget.

Indoor Prison Jammer

Solutions for individual buildings consist of indoor antennas and a central control. With this system, radio signals are continuously jammed and the external communication as well as the communication inside the building is prevented. Depending on the existing infrastructure, different versions can be delivered.

Specifications:
- Frequencies:
  - 850 – 895 MHz 25 W
  - 920 – 960 MHz 25 W
  - 1800 – 2000 MHz 15 W
  - 2100 – 2170 MHz 15 W
- Total output power: 80 W
- Frequency bands: 4
- Power supply: AC 110 or 220 – 240 V/DC 27 V
- Jamming range: radius 50-150 meters (-75dBm/omnidirectional antennas)
- Weight: 8 kg
- Dimension: 350 x 190 x 60 mm
- Working time: without time limit, may continue to work
- Antenna: external omni 350 mm or 500 mm long or directional patch panel antennas
- Special: adjustable output power each band/channel, max output power to 0 (OFF), VSWR over protection for each modular

Outdoor Prison Jammer

If the communication with mobile phones shall be continuously inhibited in a collection of buildings or on a larger area, the use of the PKI Outdoor Prison Jammer is recommended. We offer this model in different versions, too.

Specifications:
- Frequencies:
  - 450 – 470 MHz option 40 W
  - 850 – 889 MHz 50 W
  - 925 – 965 MHz 50 W
  - 1805 – 1990 MHz 50 W
  - 2100 – 2170 MHz 50 W
  - WiFi 2400 – 2480 MHz option 15 W
  - GPS: L1 1575.42 MHz option 15 W
  - GPS: L2 1227.60 MHz option 15 W
- Total output power: 200 W, option for 400 W version
- Power source: AC 220V
- Shielding area: 50 - 300 m (-75dBm/direction of antenna)
- Built-in antenna: 9 - 10 dB/70°H-plane 60°E-plane
- Working time: without time limit
- Weight: approx. 22 kg
- Dimensions: 520 x 300 x 250 mm
Jamming Systems

Outdoor Jammer Extended

This system is the optimum solution to inhibit mobile communication for larger areas. Equipped with external antennas, this system can be perfectly installed in outdoor areas and can also be used in the most adverse weather conditions. Especially for prison and other large sensitive locations such as military or governmental compounds. It can be also used in oil and gas storage facilities and fields, security services, military units, secret services, museums, border patrol and drug enforcement, customs. Each unit offers a key lock support and mounted hardware.

Advantages & Features
- Each unit can jam up to 3/4 frequency bands simultaneously
- Continuous operation even in hot climates with no time limit
- Design for outdoor installation
- Secure design to avoid sabotage
- Antenna type options – omni or directional antennas
- Selection of antennas to provide more flexibility regarding jamming coverage.
- Waterproof case
- Directional or omni antennas option

PKI 6790

Intelligent Prison Jammer

With this solution, we present a modular system which allows to inhibit mobile communication in a targeted way even in difficult environments (inner cities, etc.). This system helps to realize a local selective and time-limited reactive suppression. It consists of decentralized detectors, jammers as well as a control centre. Targeted jamming is thus possible while enabling allowed communication. There is no continuous jamming, but only the respective band is jammed in a targeted way if it is required. This way, it is possible to create areas within the zones to be monitored where a communication for own purposes is enabled. The system has a modular design and can be perfectly adapted to your needs and requirements. Operation and control can be realized separately at one location as a stand-alone system or also via an external management system. From the individual cell to monitoring several blocks, monitoring and control of several prisons can also be carried out externally.

This PKI Intelligent Prison Jammer is a stand-alone mobile detection and reactive blocker device with good energy efficiency. A conversation or an SMS detected in the vicinity are immediately indicated as an alarm via LED and sound. During the alarm, a display shows among others frequency band and field strength; date, time, duration, frequency and other parameters are stored in an internal memory in a tamper-proof way.

Features:
- Detects conversations and SMS of mobile phones in the networks GSM 900, GSM 1800 (DCS), UMTS
- Acoustic warning signal, can be deactivated
- Reactive blocking, can be deactivated
- Operating mode selectable via key switch
- Displays alarms and stores them
- All data (date, time, level, frequency band) are stored internally in a non-volatile memory
- Detection range in the open: approx. 40 m radius
- Detection range in buildings: approx. 20 m radius
- LC display 2x16 with integrated backlight
- 4 keys for easy operation
- User-friendly, interactive menu
- Password protection against unauthorized access
- Whip antenna, swiveling
- High-capacity battery for approx. 10 operating hours
- Charge level indication via LED display
- Permanent operation in case of mains supply
- Built-in battery charger with mains supply

Specifications:
- Operating voltage: 110 - 240 V AC
- Power consumption: 80 W max.
- Battery capacity: 7.2 Ah (standard), optional 12 Ah or 15 Ah
- Charging current: 1.5 Ah
- Permissible operating temperature: 0 - 50°C
- Protection class: IP 67 (for closed housings)

PKI 6770

Outdoor Jammer Extended

Catalogues are available for download at www.pki-electronic.com

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PKI 6800

300W Prison Cell Phone Jammer

This jammer is designed especially for prisons and other large sensitive locations such as military or governmental compounds. It can also be used in oil and gas storage facilities and fields, security services, military units, secret services, museums, border patrol and drug enforcement, customs etc. It provides remote PC control with software to turn each jammer ON/OFF, VSWR alarm in a wireless set up (RF module). Each unit has a control I/O (RF module) with hard relays (for alarm trigger) via wireless output for 2-8 data transmission to control all functions of each unit and to be controlled wirelessly via software program on remote PC work station. Each unit is able to send wirelessly an alarm to the remote control PC if any of the RF frequency bands fail individually from each of the units. All units have individual digital ID to identify them through the PC workstation.

The wireless data will travel to converter in the main office and then convert to RS232 so that it can communicate with a PC workstation computer.

Specifications:
- Frequency:
  - CDMA 850-894 MHz, 50W
  - GSM 935-960 MHz, 50W
  - DCS 1805-1850 MHz, 50W
  - PHS 1930-1990 MHz, 50W
  - 3G 2110-2170 MHz, 50W
  - WiFi 802.11B/802.11G 2401-2496 MHz, 25W (option)
  - 450-470 MHz, 50/100W (option)
  - Satellite phones 1500-1600 or 1600-1700 MHz, 15W (option)
- Total RF output: over 200/260 Watt
- Power supply: AC220V / 110V DC27-28V
- Power consumption: 100 Watt
- Jamming range: 200-600m based on back ground signal strength ≤-75dBm

PKI 6810

WiFi Jammer

Our PKI 6810 is a powerful jammer which jams communication via WLAN networks. In times where wireless network adapters are not bigger than a USB socket, network security is an important issue in order to avoid unauthorized data flow. The PKI 6810 jams not only the common 2.4 GHz frequency but also the 5 GHz range which is used more and more frequently. The antennas for both frequency ranges are placed within a solid and outdoor-proof housing. Due to the directivity of the antennas, a high coverage will be obtained. The PKI 6810 is suitable for wall and mast mounting and use under extreme weather conditions due to its water-proof housing. The device is equipped with a remote control in order to activate the jammer discreetly in case of hard-to-reach fixing points. Of course, PKI 6810 is also designed for further application within the 2.4 and 5 GHz range such as data transmission for Bluetooth or wireless video transmission. Therefore, operation of PKI 6810 is not limited to the radio network.

Specifications:
- TX frequency: 2.4 - 2.5 GHz
- TX frequency: 5.1 - 5.9 GHz
- Cover interface standards: 802.11 a/b/g
- Total output power: EIRP 8W
- Patch antenna gain: 6 dBi of each band
- Range: Ø 50 - 60 m
- Automatic power switching power supply: 50/60 Hz/100 - 240 V AC to 12 V DC
- IR remote control
- Housing: waterproof IP 68 outdoor design
- Operating temperature: -10°C - +60°C
- Humidity: 95% non-condensing
- Size: 28.5 x 27 x 9.5 cm
- Weight: 2.5 kg
**PKI 6820**

**WiFi and Bluetooth Jammer**

By means of its 1.5W output power **PKI 6820** provides a jamming range of 10-40 m. The individual channels are independently variable. The jammer comes including antennas, power supply and car charger adapter. **PKI 6820** can be operated 4 hours with external 12V/20Ah rechargeable battery. Thus this jammer is applicable for mobile and for stationary operation.

**Specifications:**
- Frequency: 2400-2480 MHz
- Power supply: AC 100-240V or 12V car charger
- Dimension: 300 x 140 x 50 m
- Weight: 34 g
- Working time: without time limit
- External rechargeable battery: option
- HF-output power: 1.5 W
- Various: frequencies can be supplied variable on request

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**PKI 6815**

**Digital Handheld Jammer**

**PKI 6815** is an intelligent and adaptive digital protocols jamming solution. It is a portable jammer developed to protect law enforcement personnel from information leakage caused by any type of GSM/3G/4G or WiFi/Bluetooth transmitter and to prevent location tracking with GPS/GSM devices. **PKI 6815** can be used covertly with an effective range of up to 10-15 meters. The jammer is equipped with a built-in lithium battery good for 1.5 hours of operation. Every RF band can be independently switched ON/OFF.

**Specifications:**
- Operating frequencies:
  - Band 1: GPS L1: 1563 - 1615 MHz
  - Band 2: GSM 850/900: 830 - 975 MHz
  - Band 3: GSM 1800/1900: 1790 - 2000 MHz
  - Band 4: 3G/UMTS WCDMA: 2100 - 2180 MHz
  - Band 5: WLAN/Bluetooth/WiFi: 2400 - 2500 MHz
  - Band 6: LTE 4G: 2600 MHz: 2620 - 2690 MHz
- Jamming range: 10-15 meters (GSM signal strength - 70dBm)
- External omni antennas
- LED indication for each RF band output
- ON/OFF switch for every separate band by DIP SW
- Battery: Lithium battery supports 1.5 hours of operation
- Output power: >+25dBm per band
- Dimensions: 77 x 127 x 32 mm (without antenna)
- Weight: 400 g
- Input voltage: AC 100 -250 V/DC 12V/2.5A
- Can be operated simultaneously while being charged

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**PKI 6825**

**Jammer Detector**

**PKI 6825** applies with fuzzy scanning technology, specially made for detecting jammer signals ranging from 50 MHz - 6.0 GHz without interference of cell phones, WiFi, WLAN, Bluetooth and DECT phone. This detector has 10 LEDs indicating the detected signal strength. When detecting jammer signals, the LED will light from green to yellow to red, indicating the strength of the detected signal. This device includes a special environment noise verified circuit. A relay output wire allows connection to required alarm systems with e.g. acoustic or optical signal or wireless alarm transmission when an alarm is activated.

The **PKI 6825** analyses the radio spectrum of your environment and traces characteristics of jammer. The device provides high reliability and sensitivity. False alarms will be prevented by innovative techniques. **PKI 6825** can be used stationary or with batteries and is a reliable companion when it is necessary to trace any influence in mobile communication.

**Specifications:**
- Dimension: 130 x 68 x 26 mm
- Weight: about 195 g
- Power: 9V - 24 VDC
- Detecting frequency: 50 MHz - 6 GHz
- Warning mode: 10 LEDs
- Alarm output: 1A relay with normal open output
- Sensitivity tunes: eliminates the environment interference (background noise)
**PKI 6830**

5 Band Mobile Phone Jammer

This PKI 6830 mobile phone jammer is versatile, whether mains or battery operated, with omnidirectional or directional antenna, adjustable jamming range from 10 – 150 m, with an outstanding output power of max. 60W. Where no mobile phone activity is required, this jammer is indispensable. PKI 6830 is designed for short and long time operation and provides integrated cooling. The jammer can be configured as per clients’ requirements regarding frequency and output power.

**Specifications:**
- **Frequency:**
  - CDMA 845-894 MHz
  - GSM 920-975 MHz
  - DCS 1805-1990 MHz
  - 3G 2110-2170 MHz
  - 4G 2620-2690 MHz
- **Power supply:**
  - 110V AC or 220V AC
  - Battery ext. +24V/30 Ah, operating time 2-3 hrs
- **Total output power:** 60W
- **Jamming range:** 10-150 m radius adjustable
- **Antenna:** -75dBm @ omnidirectional antenna, directional and omnidirectional antenna included
- **Operating time:** without limit, continuous work
- **Dimensions:** 490 x 390 x 190 mm
- **Weight:** 9.5 kg

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**PKI 6840**

12 Band Mobile Jamming System

This universal jammer covers 12 different frequency bands. Each band is infinitely variable, i.e. required jamming frequencies can be activated, others deactivated. Power supply via car charger allows mobile as well as stationary operation. A mains adapter is included for stationary application.

**Specifications:**
- **Frequency:**
  - Band 1 130-205 MHz 3W
  - Band 2 205-275 MHz 3W
  - Band 3 275-345 MHz 3W
  - Band 4 345-415 MHz 3W
  - Band 5 415-500 MHz 3W
  - Band 6 920-965 MHz 3W
  - Band 7 1800-1890 MHz 3W
  - Band 8 2100-2170 MHz 3G 3W
  - Band 9 2620-2690 MHz 1.5W
- **Power supply:**
  - AC100-240V AC or 12V car charger
- **Jamming range:**
  - 10-40 m radius (-75dBm@omnidirectional antennas)
- **Weight:** 6 kg
- **Dimensions:** 330 x 240 x 60 mm
- **Working time:** unlimited
- **Various:** The jammer comes complete with case and all necessary antennas

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**PKI 6845**

Jammer in a Suitcase

The PKI 6845 is a powerful and portable jammer for mobile phone frequencies. By means of its unobtrusive suitcase design, it is easy to operate on-site. The built-in lithium batteries provide independent and continuous operation up to 4 hours. The transmitting power can be adapted to the requirements and its integrated panel antenna provides immediate application. The PKI 6845 can also be equipped with an omni-directional or directional antenna for stationary use. The built-in batteries are chargeable during operation. The jammer comes with a wide range power adapter for worldwide operation. The PLL synthesizer controlled power amplifier covers GSM and UMTS frequency ranges from 450 - 470 MHz which makes the jammer suitable for changing environments. The special design of the jammer transfers the thermal energy produced by the power amplifier to the outside so that even continuous use under tropic conditions is no problem.

**Specifications:**
- **Frequency:**
  - 851/869 - 894 MHz EIRP: 3 - 32 W
  - 925/936 - 965 MHz EIRP: 3 - 32 W
  - 1800 - 1990 MHz EIRP: 3 - 32 W
  - 2110 - 2170 MHz EIRP: 3 - 32 W
  - 450 - 470 MHz EIRP: 3 - 9 W
- **Power supply:**
  - 110 V - 250 V, 50 Hz - 60 Hz
- **Dimensions:** 47 x 11 x 36 cm
- **Weight:** up to 6 kg depending on batteries
Jamming Systems

PKI 6850

45W Satellite Phone Jammer

This 4 band jammer blocks phone connections in approx. 500 m radius of standard networks like Iridium, Globalstar, Inmarsat BGAN, Teldest. The frequencies are as follows:

- Band 1: 1520-1560 MHz 10W output power
- Band 2: 1610-1630 MHz 10W output power
- Band 3: 2170-2200 MHz 15W output power
- Band 4: 2480-2502 MHz 10W output power

Each band is infinitely variable from 0 to max. output power.

Specifications:
- Dimension: 350x275x150 mm
- Weight: 10 kg
- Power supply: AC 110/240V, DC 12 or 27 V
- Antennas: 4 x omnidirectional or 4 x directional
- Patch panel antennas
- Housing: Aluminium with fan for heat removal, 4 switches for infinitely variable output power per channel from 0-10 reps. 15W.

PKI 6860

Audio/Video Jammer

It is obligatory to use different frequencies in the audio/video surveillance sector which are UHF, GHz and WLAN. In order to ward off an attack, a strong jammer with different frequency bands is essential. PKI 6860 meets this requirement and provides significant safety against a/v monitoring actions.

Specifications:
- TX frequencies, 4 bands:
  - Band 1: 420 - 480 MHz
  - Band 2: 1200 - 1300 MHz
  - Band 3: 2395 - 2500 MHz
  - Band 4: 5500 - 5900 MHz
- Total output power: 20 W
- Jamming range: 10-40 m (-75 dBm @ omnidirectional antennas)
- Dimension: 380 x 190 x 60 mm
- Weight: 3.8 kg
- Various: PKI 6860 comes complete with 4 omnidirectional antennas and 110/23V AC mains adapter.

PKI 6870

Mains Jammer

Most of the time a room monitoring attack is carried out by more or less smart RF bugs, in some cases even equipped with remote control to prevent quick and easy detection by counter surveillance scanners. But less sophisticated and low cost solutions like Intercom systems for the communication through the mains lines most often are not taken into consideration. Such systems simply can be bought in normal stores, and by removing the housings, the basic components are small enough to be hidden in places of mains power distribution sockets or junctions. Therefore the risk of this kind of attack is enormous. The PKI mains jammer protects sensitive areas against room eavesdropping through the mains line. It simply has to be plugged into the mains socket and is running fully automatic and disturbs the signal with an AM/FM-modulated noise. Direct listening to the target transmission is possible via headphone.

Specifications:
- Frequency range: 50 to 500 KHz
- Modulation: AM / FM simultaneously
- Direct listening: Via headphone
- Power Supply: Via headphone
- RF output power: approx. 1 W
- Size: 170 x 100 x 40 mm
- Prevents against Intercom attacks
- Suitable for 115 & 230 VAC
- Against mains listening

PKI 6875

Wireless Camera Blocker

This wireless camera blocker disrupts Audio/Video signals without being detected. PKI 6875 transmits interruption-code frequencies to interrupt and block the signal of wireless cameras in the range from 900MHz to 2499 MHz. A Lion-hydrogen battery allows interference activity of up to 90 minutes. Due to its small size and its built-in power supply this device is perfect for camouflaged operation.

Specifications:
- Frequency:
  - Band 1: 0.9 – 1.10 GHz
  - Band 2: 1.2 – 1.45 GHz
  - Band 3: 2.4 – 2.499 GHz
- Interference mode: interruption of wireless frequency transmission
- Power output: 800 mW
- Interference range: 10-20 m radius
- Power supply: AC-DC Adapter
- Battery: rechargeable Lion-hydrogen 900 mAh
- Operating temperature: 0-50°C
- Operating humidity: 80%-90%
- Dimensions: only 70x5x30 mm
- Weight: 170 g
- Triband Jammer
- Small Size
- Protects your privacy
- 10-20 m range interference range

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Jamming Systems

PKI 6880

50 W Police Jammer 20 MHz - 3 GHz

This police jammer 20 MHz - 3 GHz is a wide-band portable jamming system, designed for the protection of VIPs and groups of people from radio controlled improvised explosion by disabling the radio exploder control lines in dangerous areas and for the prevention of leakage of information through intercepting units during confidential talks. PKI 6880 police jammer transmits RF interference and creates a “radio frequency protected zone” around the object that prevents remote controlled bomb activation by various RF means in its vicinity with a sufficient jamming safety radius, in order to save lives and prevent serious injuries. The police jammer is also deployed to guard forces in the field, dignitaries and VIPs, checkpoint and border crossings, roadblocks, embassies, police and government offices etc. The PKI 6880 police jammer is available in various models as per the frequency and output power. However these jammers can be customized as per the user requirements.

Specifications:
- Frequency:
  - Channel 1: 20 - 80 MHz
  - Channel 2: 80 - 200 MHz
  - Channel 3: 200 - 500 MHz
  - Channel 4: 500 - 1000 MHz
  - Channel 5: 1-2 GHz
  - Channel 6: 2-3 GHz
- Total output power: 300W
- Power supply: AC adapter
  (AC220V/DC27V or 24V 60-70 Amp)
- Jamming range: 500-1000meters@-75dBm
- Stand-alone modular design and individual power control
- Adjustable output power each band/channel
- Remote control by wired 5 meters cable
- VSWR over protection for each modular
- Temperature over protection:
  Working status indicator for each band modular
  • Cover network standards:
    - AMPS, N-AMPS, DCS, NMT, TACS, GSM, CDMA, TDMA, IDEN, UMTS
    - 450MHz/900MHz/1800MHz/1900MHz/GPS/4G WiFi/4G WiMax
  Designed to cut off down-link only. Therefore it doesn’t have interference to base station and repeater.
- Dimension:
  660 mm (L) x 620 mm (W) x 690 mm (H)
- Weight: approx. 75 kg without antenna
- Operating temperature: -20°C - +60°C
- Humidity: 5% - 90%
- Antenna specs:
  - 20-100 MHz: Omni 2dBi, 1820 mm, 2.5 kg
  - 100-500 MHz: Omni 3dBi, 1215 mm, 1.5 kg
  - 100-1800 MHz: Omni 3dBi, 115 mm, 1.1 kg
  - 1805-1990 MHz: Omni 5dBi, 650 mm, 0.8 kg
  - 1500-1600 MHz: Omni 5dBi, 650 mm, 0.8 kg
  - 2400-2500 MHz: Omni 7dBi, 650 mm, 0.8 kg
  - 2600-2650 MHz: Omni 7dBi, 650 mm, 0.8 kg

PKI 6885

High Power Jammer

The PKI 6885 is a high power jammer for all GSM and 3G (UMTS) frequency ranges. It reliably disables all communications within the direct proximity of the PKI 6885. The transmission power of each single frequency range can be adjusted or deactivated independently from each other. In combination with our GSM monitoring systems or the GSM IMSI Catcher it is possible to transfer 3G (UMTS) mobile phones specifically onto GSM frequencies, where they can be monitored for further investigations. Due to its high transmitting power, the PKI 6885 is perfect for use in areas with good cellphone coverage. It jams all downlink frequencies between the BTS of the network operator and the mobile phone. By this, the GSM/3G telephone network will not be affected at all.

Specifications:
- Frequency ranges:
  - GSM 850
  - GSM 900
  - GSM 1800
  - GSM 1900
  - 3G/UMTS
- Output power: up to 250W (TX power can be decreased by steps for each band seperately)
- Dimensions: 72 x 46 x 35 cm
- Weight: about 80 kg including areals
- Operating temperature: 0° - 50° C
- Operating humidity: up to 80%
- Accessory: 230V or 110V power supply, or 12 / 24 V DC optional.
  - 12 - 15 dBi directional antenna
  - 7 - 8 dBi omni directional antenna
PKI 6900

GPS Jammer

During the last years, the number of GPS tracker and GPS/GSM detection devices has increased considerably. Especially recording units are not disclosed anymore by transmittance. As the GPS devices receive their positioning data from the satellite in the orbit, it is possible to jam the signal in order to provide the required privacy. The PKI 6900 jams both frequency ranges used by military and civil authorities independently of each other. GPS devices camouflaged in a vehicle are cut off from satellite signals so that no recording is possible. The PKI 6900 is also suitable for government authorities and security institutions when undetected control of vehicles and containers is required. As soon as the PKI 6900 jams the satellite signal of the GPS device, the required object can be moved and controlled without notice.

Specifications:
- Frequency: VHF 130 - 180 MHz 50W
- UHF 420 - 480 MHz 50W
- SHF 2100 - 2600 MHz 50W
- Power supply: AC 220V adapter
- DC 24 V 60-70 Amp.
- Jamming range: radius 500 m
- Operating temperature: -20°C to +60°C
- Humidity: 5% - 90%
- Dimensions: 110 mm x 62 mm x 30 mm
- Weight: 200 g

PKI 6910

Surveillance Jammer VHF / UHF / SHF

95% of all HF monitoring devices work on the frequency range conceived by PKI. The indicated power is the maximum and can be lowered for each frequency band.

Specifications:
- Frequency: VHF 130-180 MHz 50W
- UHF 420-480 MHz 50W
- SHF 2100-2600 MHz 50W
- Power supply: AC 220V adapter
- DC 24 V 60-70 Amp.
- Jamming range: radius 500 m
- Operating temperature: -20°C to +60°C
- Humidity: 5% - 90%
- Antenna specs: omni directional, 4-5 dBi
- Various: temperature protection

PKI 6895

GPS Jamming Detector

The PKI 6895 jamming detector has been developed for selective detection if GPS devices are jammed by someone. If your vehicles are equipped with GPS devices, the PKI 6895 finds out if the determination of their position is disturbed by any jamming device. This for example might be possible in the case of a deviation from the scheduled itinerary. The PKI 6895 jamming detector is not affected by interferences from mobile phones or radio devices, but reliably indicates interferences produced by jamming devices. Its electronic system contains a specific filter mechanism that selectively indicates jamming signals only. Interferences of other frequency ranges (GSM, UMTS) can be detected as well. Inversely it suppresses the normal background noise.

Specifications:
- Frequency range: 500MHz - 6 GHz
- Power supply: 9V - 24V DC
- Alarm output: 1A relay
- Sensitivity: adjustable
- Dimensions: 130 x 68 x 26 mm

PKI 6910

Two-way Radio Jammer

This jammer provides 4 frequency bands from 130 to 500 MHz with 80 W output power and is specially designed for two-way radios working on VHF/UHF range. Each 20W channel is infinitely variable. The jamming range is 50-150 m (~75dBm@omnidirectional antennas). PKI 6910 is made for continuous operation. It comes complete with 4 antennas and mains adapter.

Specifications:
- Dimension: 400 x 190 x 60 mm
- Weight: 10 kg
- Antenna: 350 mm long
- Frequency: 130 – 500 MHz
- Jamming range: radius 50-150 m (~75dBm@omnidirectional antennas)
- Power supply: AC 110/240V, DC 12 or 27V
- Housing: aluminium with fan for heat removal
- 4 switches for infinitely variable power regulation per channel from 0-20 W.
**PKI 6920**

**Man Pack Jammer**

PKI 6920 is perfectly designed for mobile operation in the field and works totally autarkic due to integrated power supply. Independently it provides 110/230V AC operation. As standard frequency we have configured VHF/UHF and SHF range. 5 different frequency bands can optionally be ordered according to clients’ requirements. 100 watt is the maximum output power for a jammer to be worn on the body without health problems. This implicates a jamming range of max. 150 m.

The PKI jammer is constructed to block continuously and simultaneously up to five frequency bands. Its smart active cooling system enables non-stopped use even in a very hard climate and weather condition. PKI 6920 is a state-of-the-art efficient cellular / satellite / mobile phone jammer designed for bomb disposal security applications, like troop marching and field operation.

**Specifications:**

- Number of frequency bands: up to 4 bands
  - For example VHF/UHF SHF
  - 130 - 174 MHz VHF 25 watt
  - 400 - 470 MHz UHF 25 watt
  - 1200 - 1300 MHz SHF 25 Watt
  - 2400 - 2500 MHz WiFi 2.4 G 25 watt
- Output power: 100 watt
- Power consumption: max. 380 W
- Power supply voltage: 110/230VAC + 12/24 VDC
- Power adjustment: multi level potentiometer, adjustable by computer
- Battery operation time: 2-3 hours
- Range radius: up to 120-150 m (signal ≤-75dB in application place)
- Housing: metal
- Total system weight: approx. 17 kg
- Humidity: up to 80%
- Operation temperature: -10°C - +50°C
- Control: wireless management
- Cooling system: active, integrated air filter
- Antenna type: external high gain omni directional (standard)
- Antenna gain: 3-4 dB (omnidirectional)
- Directional antennas: up to 2 pcs
- Omnidirectional antennas: up to 5 pcs

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**PKI 6930**

**Briefcase Jammer**

PKI 6930 is very popular for various mobile applications. This briefcase jammer can be configured as per your request. Totally autarkic and mains independent operation is possible. With a total output power of max. 24 watt, max. 8 frequency bands and an operating time up to 3 hours jamming ranges of up to 40 m can be achieved. Each required frequency band is individually variable. For standard frequencies please see under specification below. PKI 6930 provides an integrated 12V/24Ah rechargeable battery and all necessary antennas. A recharger for 110-230 VAC is included in delivery scope.

**Specifications:**

- Standard frequencies:
  - USA
    - 700-800 MHz
    - 920-965 MHz
    - 1379.91 MHz
    - 2100-2170 MHz
  - EUR
    - 850-895 MHz
    - 920-965 MHz
    - 1381.05 MHz
    - 2620-2690 MHz
  - GPS
    - 920-965 MHz
    - 1381.05 MHz
    - 2100-2170 MHz
  - OTHERS
    - 920-965 MHz
    - 1360-1550 MHz
    - 2100-2170 MHz

- On request, we can supply special frequencies for:
  - remote control 315 MHz, 433 MHz, 868 MHz
  - GPS L2, L3, L4, L5, LoJack 173 MHz
  - SAT 1520-1670 MHz
  - WiFi 3.5-3.7 GHz, 5.1-5.5 GHz, 5.5-5.9 GHz
- Dimensions: 430 x 350 x 120 mm
- Weight: 9.0 kg
- Jamming range: max. 40 m
  (-75 dBm/omnidirectional antennas)
- Power supply: 110-230 V AC, accu 12V/24Ah
**PKI 6940**

**Car Lock Jammer**

This jammer is designed for the use in situations where it is necessary to inspect a parked car. Whenever a car is parked and the driver uses the car key in order to lock the doors by remote control, normally he does not check afterwards if the doors are really locked or not. For such a case you can use the PKI 6940. It can be placed in car-parks, both outdoors and in car-park buildings. The briefcase-sized jammer can be placed anywhere nearby the suspicious car and jams the radio signal from key to car lock. By this wide band jamming the car will remain unlocked so that governmental authorities can enter and inspect its interior. The complete system is integrated in a standard briefcase. Optionally it can be supplied with a socket for an external antenna, so that PKI 6940 can even be placed inside a car, parked in the same area, with the antenna placed on top of the car. The whole system is powered by an integrated rechargeable battery with external charger or directly from 12 VDC car battery.

**Specifications:**

- Frequency: 315, 433 and 868 MHz, channels individually switchable
- Output power: 60W, each band 20 W, power variable
- Dimensions: standard briefcase - approx. 50 x 40 x 20 cm
- Weight: approx. 5 kg
- Output frequency: to cover all radio frequencies for remote-controlled car locks
- Output antenna: integrated inside the briefcase, optionally external antenna if jammer is positioned inside a car
- Jamming of a particular frequency or channel

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**PKI 6945**

**Modular Car Jammer System with Digital Programming**

Jammers are absolutely indispensable in a lot of application areas, i.e. securing of convoys, VIP or borders. We especially want to point out that the jammer technology is also very useful to fend off remote-controlled bombs, i.e. RCIEDs (Remote Controlled Improvised Explosive Devices) PKI Jammers are manufactured according to customer’s requirements. Thanks to the new digital PKI programming it is possible to adapt not only output power and frequencies to be disturbed, but also the required exemptions necessary for your own communication. The modular system allows you to choose any required frequency within the range of 25MHz up to 1.000 MHz / 1GHz up to 2GHz / 2 GHz up to 3GHz and 3GHz up to 4GHz.

**Specifications:**

- Total frequency range 25MHz - 4.000MHz
- Band 1 25MHz - 90MHz
- Band 2 90MHz - 500MHz
- Band 3 500MHz - 1000MHz
- Band 4 1GHz - 2GHz
- Band 5 2GHz - 3GHz
- Band 6 3GHz - 4GHz

**Power amplifiers**

- Band 1 and 2 60W CW each, Class A/B
- Band 3 40W CW, Class A/B
- Band 4, 5, 6 26W + 44,2dBm
- Flatness: -1 to -1,5 dB
- Power consumption: DC 12V / 35A each
- Cooling system: integrated heatsink 12V fans
- Type of Antennas: Log.-periodic directional
- Dimensions: 19” rack, height 3RU, each 135x450x350mm
- Weight: approx. 22 kg each module
- Scope of Delivery: incl. antennas, remotebox and cables

If you require any further information, please let us know.

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**PKI 6950**

**1000 Watt Long Distance Jammer 20 MHz - 3,6 GHz**

This jammer comes complete for installation in a SUV including antennas und power supply.

**Specifications:**

- Frequency range: 20-3600 MHz
- Total RF power: 1000 Watt, max. 1300 Watt
- Jammer module number: 12
- Jamming frequency bands: more than 20 bands
- Cooling system: systematic smart cooling system
- System protection: VSWR, over-voltage, over-current
- Jamming source: direct digital synthesize technology
- Remote control: full system operation control
- Antenna type: high gain omnidirectional antennas
- Number of antennas: 8-10
- Vehicle platform: off-road four-wheel drive car
- Power supply source: additional AC generator (5000W)
- Total power consumption: max. 5500 W (+28VDC)
- Battery back up capacity: 200 AH/28VDC
- Jamming system weight: approx. 90 kg
- Operating temperature range: -35°C - +65°C
- Operating humidity up to 80%

Catalogues are available for download at www.pki-electronic.com

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PKI 6960

Long Distance Jammer 1 - 6 GHz

The PKI 6960 strongly disturbs the communication between transmitter and receiver with special jamming methods. Especially in case of digital transmissions, this causes faulty signals and does not allow for any communication. A synchronization between receiver and transmitter is prevented and a transmission cannot take place. Thus disturbed, even the most simple actions, as usual for remote controls, are no longer possible. Easy operation (optionally with remote control) as well as extensive self-test functions allow rapid responses to changing scenarios also during an operation. The PKI modular jamming system can be scaled and adapted to any necessary application. Depending on available space and power, country of destination and customer specification PKI adapts the electronics and antennas to match given specifications. Frequencies can be from 20 MHz up to 6000 MHz using high sophisticated sweep generators which are capable of interfering analogue and digital transmissions. Depending on the requested power the number of incorporated units may vary.

Specifications:
- Frequency range: 1 GHz up to 6 GHz
- Power output: 510 W, divided into 5 bands:
  - 1 - 2 GHz 110 W
  - 2 - 3 GHz 100 W
  - 3 - 4 GHz 100 W
  - 4 - 5 GHz 100 W
  - 5 - 6 GHz 100 W
- Dimensions: 48 x 14 x 31 cm
- Power supply: 24 V DC
- Antenna system: directional log-periodic antenna,
- Average amplification: 9 - 12 dBi

PKI 6965

Mobile Jamming Systems

The PKI 6965 uses the technology of the more advanced digital frequency generation, compared to the traditional PLL technique, in order to allow different modes of signal generation.

A) Spot-jamming of a particular frequency or channel
B) Hopping - Jamming of jumping frequencies in combination with an optional connected surveillance receiver, a single bus-band may be selected or the whole spectrum of 20-3000 MHz. On special request we are able to deliver also frequencies up to 6 GHz.
C) Sweep - Jamming of a frequency band at an ultra-fast speed and in a continuous mode, various programmable frequency windows allow to define the beginning and end of the frequency bands to cover.
D) Barriage - Instantaneous and continuous p.n. noise (pseudo noise) jamming over a wide band. It is possible to activate all sub-bands at the same time and to get a total complete RMS power of 1100 W output to the antenna.

Specifications:
- Frequency Coverage:
  - 20 MHz to 3000 MHz
  - (including 800,900,1800,1900 and 2100 mobile phone bands to cover AM PK, CDMA, TDMA, GSM, IDEN and UMTS bands)
- Power output: 1100W total
- Number of channels 12
  - Channel 1 20 - 80 MHz 200W
  - Channel 2 80 - 200 MHz 200W
  - Channel 3 200 - 500 MHz 200W
  - Channel 4 500 - 1000 MHz 100W
  - Channel 5 1 - 2 GHz 100W
  - Channel 6 2 - 3 GHz 100W
  - Channel 7 800 MHz 50W
  - Channel 8 900 MHz 30W
  - Channel 9 1800 MHz 30W
  - Channel 10 1900 MHz 30W
  - Channel 11 2100 MHz 30W
  - Channel 12 2400 MHz 30W
- Power consumption:
  - approx. 260A at 12V (3120 Watts)
- Effective operating range: approx. 80 - 200 meter (depending on location)
- Jamming Signal: CDSS (Complex Digital Sweep Signal)
- Amplifiers: Class A Linear. Gain flatness +/- 1.5dB
- VSWR Protection: Protected against antenna mismatch including open and short circuit
- Temperature range: -10°C to +70°C
- Humidity: 0 - 90% Relative Humidity
- Power sources: 12 V DC from car system and additional generator
- Cooling system: Forced air (by built-in blower)
- Dimensions: approx. 500 x 500 x 1150 mm ( h x d x w )
- Weight: approx. 130 - 150 kg

The system includes a complete set of roof mounted antennas, remote control and monitoring system.

Technical data is subject to change without notice.
Jamming Systems

PKI 6975

High Power Convoy Jammer

When a convoy with several vehicles moves overland, it easily becomes a target for remote controlled bombs. Due to the high travel speed, it is important to eliminate hidden booby-traps in time. Therefore, the PKI 6975 is an ideal companion for VIPs and military convoys. Its high power and optimized antennas transmitting in driving direction provide a secure area for the convoy. A frequency spectrum from 10 MHz to 3 GHz is covered unbroken and therefore offers a maximum of security. Installation in SUVs as well as in sedan models is possible. The antennas can be camouflaged in a roof box or visibly mounted to the car. The PKI 6975 is equipped with considerable security mechanisms which ensure continuous operation. The power amplifiers are overload-proof and switch off automatically when antenna matching fails. The transmitting power of the single frequency bands can be controlled separately. The individual antenna sockets per frequency range allow an optimal coverage. It has a user friendly GUI (graphic user interface) display and control. Special frequency ranges on request.

Specifications:
- Frequency spectrum: from 10 MHz to 3.0 GHz
- RF output power: up to 1350 W
- Frequency bands: up to 16 selectable bands from 10 MHz to 3.0 GHz each with individual on/off control
- Jamming: most communication standards, HF/UHF, VHF/ GSM/ CDMA/ 3G within the spectrum
- System: modular, for easy replacement of individual frequency bands
- Power supply: 1) High power liquid cooling DC generator integrated in the trunk of the vehicle. The special design of the generator provides silent operation, high efficiency and low maintenance.
  2) A high capacity no maintenance rechargeable battery pack (max. 120 minutes)
  3) 230V AC mains
- Amplifier: ultra high power RF amplifiers with VSWR and temperature self-protection technology
- Antennas: installed directly onto the roof of the vehicle or in a roof box
- Operating conditions: excellent performance in all road and all weather conditions
- Operation: fully independent
- System warm up time: L 20 sec.
- Operation temperature: -30°C - +60°C
- Operation humidity: 95 +/- 3% (55°C)
- System weight: < 100 kg

PKI 6970

Long Distance Jammer 6 - 18 GHz

With a bandwidth of 12 GHz, our PKI 6970, like the model PKI 6970, is also a high-performance jammer with optimized coverage. In the past, it was particularly difficult to jam transmitters and receivers in these high frequency ranges so that no communication between these units could take place. Our PKI 6970 now succeeds in optimally jamming this frequency range.

Specifications:
- Frequency range: 6 - 18 GHz
- Power output: 120 W, divided into 3 bands: 6 - 9 GHz, 40 W
  9 - 12 GHz, 40 W
  12 - 18 GHz, 40 W
- Dimensions: 48 x 14 x 31 cm
- Power supply: 24 V DC
- Antenna system: directional log-periodic antenna
- Average amplification: 10 - 14 dBi

Catalogues are available for download at www.pki-electronic.com
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PKI 6980

5kW / 10kW Jammer on Shortwave

Power Amplifier 3-30MHz 5kW
Power Amplifier 3-30MHz 10kW
is a self contained water / air cooled, broadband LDMOS amplifier. The amplifier’s front panel digital display shows system status information.

Specifications:
- saturated output power: 5kW (nominal)
- Frequency response: 3 to 30 MHz
- Gain: 70 dB minimum
- Flatness: ±2 dB, ±1.5 dB at rated power
- Input for rated output: 0 dBm
- Harmonic distortion H2 and H3: 20 dBc at rated power, -35 dB typical
- Input impedance: 50 ohms, vswr 2:1
- Output impedance: 50 ohms, vswr 2.5:1 typical
- Mismatch tolerance: 3:1 max. Above 3 kW reflected power (fold back protection)
- On/Off Isolation: >60 dB
- Output RF sample ports: Diri/ ref power: 60 dB
- Primary power: 400 V ac +/-10% 3 phases
- Power consumption: 24 kVA max.
- Cooling: Water cooled on closed loop (+ internal water/air exchanger)
- Air flow: 400 l/s
- Air temperature for nominal output power: + 22°C
- Working temperature: 0 to + 35 °C (0 to + 50 °C as option)
- Storage temperature: - 10 to + 50 °C (-20 to + 70 °C as option)
- RF input connector: Type N female on rear panel
- RF output connector: Type EIA flanged 3” 1/8 on rear panel
- RF output sample ports (forward and reflected): Type N female on rear panel
- Interface connector: LAN on rear panel
- Primary power connector: 3 Ph x 40 A + N + T
- Sizes (W x H x D): 65 x 177 x 84 cm
- Weight: 325 kg

PKI Jamming System (5000 W)
- Number of channels: 5
- Channel 1: 140 to 170 MHz, 1000 W
- Channel 2: 400 to 500 MHz, 1000 W
- Channel 3: 540 to 1630 kHz, 1000 W
- Channel 4: 87.5 to 108 MHz, 1000 W
- Channel 5: 800 to 900 MHz, 1000 W
- Jamming signal: CDSS (Complex Digital Sweep Signal)
- Amplifiers: Class A Linear,
- Gain flatness +/- 1.5 dB
- VSWR Protection: protected against antenna mismatch including open and short circuit
- Temperature range: -10°C to +70°C
- Humidity: 0 - 90% Relative Humidity
- Power sources: external generator (10 KW)
- Cooling system: forced air (by built-in blower)
- Dimensions: approx. 500 x 500 x 1150 mm (h x d x w)
- Weight: approx. 110 - 120 kg
- Housing construction: 19” racks with independent slide-in channels, to be specified

PKI 6990

High Power Broadcasting Jammer

Modulation: COFDM
Dynamic Jamming through RF detection capability: detection of RF signals within 1 nano second / 1 GHz
Programming interface: USB, Ethernet
Command of system: switches/keyboard on control unit
Software controlled through PC laptop / Tough-book / PDA
Programming possibilities: frequency bandwidth / channels within full bandwidth, number of windows
unlimited individual channel programming accuracy 0.1 kHz
individual allocation of power for each bandwidth / channel
Alarm (visual / audio) in case of malfunction of the system
Alarm (visual / audio) and system shutdown in case of exceeded ROS value
Self-protection of the system in case of any malfunction
System impedance: 50 Ohm
HF connections: N socket backside
Optional outputs: HF monitoring outputs Boost calibration
Supply voltage: 200 - 240 VAC, 50 - 60 Hz, 7 A 12 - 48 VDC
Input VSWR: 2.0:1 max. with respect to 50 Ohm
Output VSWR: 2.5:1 typ.
Load VSWR: 2.0:1 max. without damage continuous

Specifications:
PKI Jamming System (5000 W)
- Power output: 5000 W in total
- Number of channels: 5
- Channel 1: 140 to 170 MHz, 1000 W
- Channel 2: 400 to 500 MHz, 1000 W
- Channel 3: 540 to 1630 kHz, 1000 W
- Channel 4: 87.5 to 108 MHz, 1000 W
- Channel 5: 800 to 900 MHz, 1000 W
- Jamming signal: CDSS (Complex Digital Sweep Signal)
- Amplifiers: Class A Linear,
- Gain flatness +/- 1.5 dB
- VSWR Protection: protected against antenna mismatch including open and short circuit
- Temperature range: -10°C to +70°C
- Humidity: 0 - 90% Relative Humidity
- Power sources: external generator (10 KW)
- Cooling system: forced air (by built-in blower)
- Dimensions: approx. 500 x 500 x 1150 mm (h x d x w)
- Weight: approx. 110 - 120 kg
- Housing construction: 19” racks with independent slide-in channels, to be specified

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