



WORLDWIDE MANUFACTURER & SUPPLIER OF
ANTI TERROR EQUIPMENT

For Government Use Only



PKI ELECTRONIC INTELLIGENCE GmbH GERMANY

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To our international specialist departments of the various ministries.

PKI is a manufacturer and supplier of security equipment for government agencies, military and other government units, intelligence services and security companies. Our specialists have extensive knowledge of security technologies to meet the highest demands of our highly valued customers.

We are proud to offer you a selection of our leading-edge **PKI** technology in this brochure. We have included both advanced developments as well as some of our bestsellers. Each product is designed to meet the highest standards based on the specifications of specialists working on site. We would also be pleased to hear your views on how our equipment works in the field and then to receive your comments on changes or improvements. This information will help us to constantly exceed your expectations and develop new, innovative products.

We would also like to thank our customers who have ordered customized or exclusive equipment - we are always proud to meet your needs. The design and development of such exclusive equipment requires considerable research and testing but allows us to improve our capabilities and increase our efficiency.

We sincerely hope that the **PKI** products in our brochures will enhance your ability to fight crime and terrorism wherever you are.

PKI has been serving a wide range of government departments worldwide for over 50 years, including training and ``after sales service``. Years of relationships with the specialist departments testify to their satisfaction with **PKI** products.

We would like to thank you for your trust in **PKI** and for the continuous consultation and cooperation.

Your PKI Team



INTERCEPTION AND MONITORING SYSTEMS



PKI ELECTRONIC INTELLIGENCE GmbH GERMANY

IMSI-CATCHER



PKI ELECTRONIC INTELLIGENCE GmbH GERMANY

DIGITAL AUDIO RECORDER EQUIPMENT



PKI ELECTRONIC INTELLIGENCE GmbH GERMANY

AUDIO SURVEILLANCE EQUIPMENT



PKI ELECTRONIC INTELLIGENCE GmbH GERMANY

SPECIAL SURVEILLANCE



PKI 2825

PKI 2835

PKI ELECTRONIC INTELLIGENCE GmbH GERMANY

COUNTER SURVEILLANCE



PKI ELECTRONIC INTELLIGENCE GmbH GERMANY

DIGITAL AUDIO/VIDEO RECORDER EQUIPMENT



PKI ELECTRONIC INTELLIGENCE GmbH GERMANY

VIDEO AND NIGHT VISION SYSTEMS



PKI ELECTRONIC INTELLIGENCE GmbH GERMANY

JAMMING SYSTEMS



PKI ELECTRONIC INTELLIGENCE GmbH GERMANY

POLICE, CUSTOMS AND MILITARY EQUIPMENT



PKI ELECTRONIC INTELLIGENCE GmbH GERMANY

Company Introduction

For many years, **PKI** has successfully offered police, customs and military equipment to various governmental departments.

In most cases, our customers dispose of a budget for security equipment with many single positions containing **PKI** products as well as **PKI** merchandise.

As many departments do not want to break their budget into many small orders, they trust in our **PKI** logistics with its worldwide net of experience.

Another advantage is the warranty also for products that are not made by **PKI** but ordered by us as part of the package.

To complete our **PKI** programme we also offer inhouse training.

To put the responsibility and the handling of a complete order for anti-terror equipment in the hands of **PKI** is for sure a good decision.

IF IT WORKS, ITS **PKI**



VIEW AND LISTEN WHAT IS CONCEALED WITH PKI PRODUCTS



PKI ELECTRONIC INTELLIGENCE GmbH GERMANY

VIEW AND LISTEN TO WHAT IS CONCEALED WITH PKI PRODUCTS



PKI 2115 Digital Stethoscope Recorder

PKI 2470 Needle Microphone with Amplifier



PKI 2515 Tactical Audio Microphone Set

PKI 2910 Directional Microphone Set



PKI 2915 Directional Microphone of the latest generation

PKI 2925 Professional Super Directional Microphone



PKI 3000 Laser Microphone

PKI 3100 Laser Monitoring System



PKI 5070 Telephoto Recorder

VIEW AND LISTEN TO WHAT IS CONCEALED WITH PKI PRODUCTS



PKI 5100 Multi-Purpose Thermal Imager

PKI 2470 Video Drone with Unlimited Flying Time



PKI 5900 Submarine Video Camera

PKI 7100 X-Ray Inspector



PKI 7130 Letter Bomb Detector

PKI 7300 Handheld Explosive Detector



PKI 7405 Radar Observation System

PKI 8050 Ultracam Videoscope



PKI 8080 Smartphone Endoscope Camera

VIEW AND LISTEN TO WHAT IS CONCEALED WITH PKI PRODUCTS



PKI 9220 Contraband Detector

PKI 9380 Forensic Vehicle Laboratory



PKI 9400 X-Ray Spray

PKI 9530 Car ID Set



PKI 9550 Inspection Mirror

PKI 9780 UV-Set



PKI 9850 Observation Vehicle



PKI 9855 Undercover Investigation Vehicle



PKI 9885 Surface Penetrating Radar



EARTHQUAKE PRODUCTS



PKI ELECTRONIC INTELLIGENCE GmbH GERMANY

EARTHQUAKE PRODUCTS



PKI 2180 Professional Quadro Stethoscope Recorder

PKI 5100 Multi-Purpose Thermal Imager



PKI 5070 Telephoto Recorder

PKI 5625 Video Drone with Unlimited Flying Time



PKI 5675 Outdoor Fire Detection System

PKI 5700 360° Long-Term Surveillance Camera



PKI 7100 Portable Flat X-Ray System

PKI 7200 X-Ray Scanner



PKI 7405 Radar Observation System



PKI 7540 Contraband Detector



EARTHQUAKE PRODUCTS



PKI 7550 Modular EOD / IEDD Robot

PKI 7565 Computer Controlled Military Searchlight



PKI 7575 3D Through Wall Radar

PKI 8005 Mobile Power Station



PKI 8020 Flexible Fiberscope

PKI 8050 Ultracam Videoscope Receiver



PKI 8055 Control Mirrors

PKI 8085 Audio/ Videoscope Cameraset



PKI 8110 Telescopic Inspection Camera for Day and Night Observation and Recording

PKI 8125 Video Stick Camera



EARTHQUAKE PRODUCTS



PKI 8155 Super Probe



PKI 8160 LED Balloon Light



PKI 8210 Handheld Metal Detectors



PKI 8230 Top Quality Metal Detector



PKI 8270 IED / RCIED Detector



PKI 8275 Chemical Handheld Detector



PKI 8565 Underwater Metal Detector



PKI 9055 Drinking Water Container



PKI 9060 Foldable Drinking Water Tank



PKI 9105 Hydraulic Jamb Spreader

EARTHQUAKE PRODUCTS



PKI 9110 Series of Door Rams

PKI 9165 Emergency Set



PKI 9170 Gas Mask

PKI 9175 Hydraulics Door Opener



PKI 9180 Hydraulic Door Opener

PKI 9200 Protective Police Helmet



PKI 9220 Contraband Detector

PKI 9300 Protective Suits



PKI 9310 Breathing Mask

PKI 9335 Quick Operation Tent



PKI 9340 Acoustic Hailing Device

EARTHQUAKE PRODUCTS



PKI 9860

Special EOD Vehicle



PKI 9865

Leak Detector for Gases and Compressed-Air Systems



PKI 9875

Cable Locator



PKI 9885

Surface Penetrating Radar



PKI 9935

Two-Line-Rigging Kit



PKI 9940

EOD / IEDD Rigging Kits

PKI 9945

Hook and Line Kit



PKI 9950

Hook and Line Kit No. 1

PKI 9955

Hook and Line Kit No. 2



PKI 9960

Hook and Line Kit No. 3

PKI 9965

Hook and Line Kit No. 4



THE LATEST DEVELOPMENT



PKI ELECTRONIC INTELLIGENCE GmbH GERMANY

PKI 5645 Micro Drone

PKI 5645 is a small and very fast reconnaissance tool which fits in the palm of a hand. It comes together with a long range remote control and FPV video goggles. Using **PKI 5645** makes you feel as if you are watching out of the cockpit of an aeroplane. **The PKI 5645** drone is up to 70km/h fast and the remote control has a range of up to 1,5km. The onboard video camera transmits the signal back to the video goggles with very low latency. A 5,8GHz diversity receiver provides a stable signal with low interference. The four propellers give the drone the needed agility to fulfill any mission.



Everything is organized in a rugged and waterproof suitcase for easy transportation. The batteries can be replaced in seconds. The video goggles show all needed parameters on screen like battery voltage and signal quality. **PKI** also offers training courses to become familiar with the functions of **PKI 5645**.

Specifications	
Weight	150gr
Max speed	70km/h
Propeller size	63,5mm
Max. range	1,5km
Width	140mm
Length	160mm
Height	55mm
Input voltage	12V
Flight time	5 min
Battery size	650mah
Antenna	Circular polarized
Video	Two 5,8GHz diversity receiver
Rechargeable batteries for all components	
Rotor reverse mode	



PKI 5650 License Plate Scanner with Face Recognition

When it comes to vehicle access monitoring, our **PKI 5635** number plate recognition camera is a proven solution. However, they only check the vehicle. The question of who controls the vehicle is often of greater importance. **The PKI 5645** is a powerful solution that ideally combines our license plate scanners and face recognition. The powerful IP camera fit for night vision together with the highperformance software allows to evaluate both characteristics and to compare the results with a database.

Any actions can be triggered on the basis of the results. For example, to release the access or to alert the guard. Time and attendance applications can also be integrated. **The PKI 5645** scanner must be aligned to the front of the vehicle in order to detect driver and license plate. Special light sources ensure a sufficient image recognition quality also in dark environments.

For covert operations, an infrared light source can be used, too. Due to its modular design, the **PKI 5645** is versatile in use. The image recognition server can manage several cameras simultaneously. The components are connected via network connections and can thus also be used from the distance. All components are weatherproof and resistant to vibration, so they can be installed in vehicles.

Comprising
Special lights
IP camera(s)
Server for image recognition



PKI 6500**Digital High Power Convoy Jammer System 20MHz - 6GHz**

The indicated effective jamming range varies tremendously from manufacturer to manufacturer. **PKI Electronic Intelligence GmbH** tries hard to provide a neutral und physically dependent scale. The jamming range always depends on the field strength of the environment, i.e. it varies from 30 m to 150m.

For more than 30 years, **PKI** has developed, produced and distributed professional jammers „Made in Germany“. We have put many years of experience and development especially in our high power convoy jammer system operating in the frequency range from 20MHz to 6GHz with up to 1900W output power. Worldwide references relating to **PKI 6500** convince of its technical superiority. **PKI** quality is characterised by special features such as:



- Frequency range 20 MHz - 6GHz
- Continuous jamming signals (no gaps)
- Stable power supply (integrated unit)
- Modular jamming system (bays)
- Inconspicuous antenna system (shark fins)
- Shielded HF foil (driver protection)
- Digital programming (gaps for communication)
- Radiation 100/200W per channel (as requested by the customer)
- Minimum power 1,100W (max. power 1900W)
- Internal remote control (in the vehicle)
- Control function of the channels (rugged display)
- Sweeping technology (precise modulation)
- Different power supply options (alternator, mains operation generator)
- Cooling system (for the electronic and driver)
- Antennas (directional or omni-directional antennas)
- Favourite type of vehicle Toyota Cruiser (as requested by the customer)
- Training and installation (in the respective country; needs to be booked extra)
- Video surveillance (possible on request)
- Field Service Testing (measurement tools)
- Maintenance tools (as requested by the customer)
- After Sales Period (plans for maintenance)
- Spare parts (as requested by the customer)
- Complete solution (see description)

**Modular Design**

The modular **PKI** jamming system **PKI 6500** can be scaled and adapted to any necessary application depending on available space and power, country of destination and customer specification.

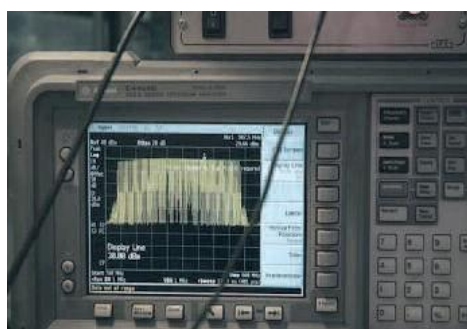


Full Range Jamming

All frequencies from 20MHz - 6GHz are covered using high sophisticated sweep generators which are capable of interfering analogue and digital transmission. Depending on the requested power the number of incorporated units may vary. For full range jamming at least 8 units (modular systems) must be set into operation.

Intensified Bands

Based on **PKI** experience and 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

The output of the **PKI** „High Speed Sweeper“ shows how precise the power amplifier is modulated. This avoids unnecessary technical side effects which could endanger the mission. The sweep signal includes four different waveforms with different modulations. First is a fundamental frequency creating the basic sweep and setting the frequency range for the required band. The sweep time is optimized for best performance with the associated power amplifier. Two additional AM modulations, one with low and one with high frequency, are used to disturb advanced digital transmission systems like UMTS. It is able to work against the internal error correction and frequency hopping algorithms.

Power Supply

The high-power modules of the HF-modules can be either powered by vehicle engine alternator, independent generator or mains operation. For high power systems vehicle engine alternator also improved version, more than 2000 Watt, might not be sufficient to source a system. Therefore, we offer a built-in high power silent generator solution. To buffer the power supply, 2 powerful dry-cell batteries 24V each are used. This ensures a one-hour emergency supply of the **PKI** jammer system, e.g. in case of a power generator failure.



Cooling

The integrated cooling system is used to cool the electronic systems and the driver.



Antennas

All antennas are specially designed to the specific frequencies to broadcast. **PKI** offers two options for the antennas. At first directional antennas because they are much more effective to produce a „clean“ corridor along the convoy. At second omni-directional antennas. This in turn reduces the jamming range, but radiates the jamming signal all around.



Control and Monitoring

All control will be placed in the driver compartment. The system is to operate fast by one button. For trained personnel it is possible to monitor all system parameters, function, temperatures and video surveillance from the operator seat. With one glimpse the operator may check the status of the complete system. The same panel allows him to switch the system ON or OFF. The operator of the **PKI** 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. Here, **PKI** has very good experience with the Toyota Cruiser. This car is rugged, fast and used all over the world. What's more, service is available in every country.

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 system 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 day and night cameras or thermal imaging systems. All pictures and sound will be recorded for long recording time.

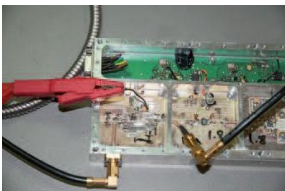


HF Protection

In order to protect the passengers of the **PKI 6500** vehicle from high frequency radiation, all windows are covered with transparent HF-proof protective foil. This also applies to the installed rear panel between the **PKI** electronics and the passengers.

Field Service Testing

PKI will provide modern measurement equipment for all system specifications. Also field test equipment and training for the system and all measurement tools.



First Line Maintenance

All devices are built from sub-assembly units which can be interchanged or replaced in case of malfunction. Diagnostic tools for error analysis to assist the operating staff are included. A broken module can be spotted instantly.



Tools Delivery

All necessary tools to service the system will be supplied for example spectrum analyser, power meters, tool box, cables and adapters.

After Sales Period

During the warranty period of any duration, which can be contracted, the system includes a periodical maintenance by **PKI** well trained engineers. After this period we offer different plans for maintenance. After each site visit a detailed maintenance report will be submitted including protocols and field test results.

Spare Parts

All major components and plug-in modules are equipped with malfunction indicators. Less training personnel can replace easily defective units. By this means the uptime of the system is kept at highest level. Defective parts can be repaired or changed afterwards.

Complete Solution

With this digital high power convoy jammer system operating from 20MHz to 6 GHz **PKI** offers an absolute innovation on the world market. **PKI** offers not only customized development, but also service worldwide, training as requested, repair and maintenance, test and measurement equipment and complete documentation. You can trust in **PKI's** worldwide experience and technologies and delivery in time.





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