



World's No.1 Bomb Jammers

## for Military Convoy Protection

Military and Police envoys face a serious terrorist risk in many countries, especially in hostile areas of the World. SESP understands the necessity of providing fast mobilization of a dedicated vehicle for critical situations and missions.

SESP developed the JAM-X system to provide the ultimate solution for saving lives which are threatened by roadside bombs (IEDs or RCIEDs).

The JAM-X Mk 5 is an ultra high power broad-band bomb jamming system in modular form, which is integrated into the trunk of the vehicle in a covert manner. The system is designed to continuously and simultaneously block communication standards within the wide frequency spectrum of 25MHz to 6GHz.

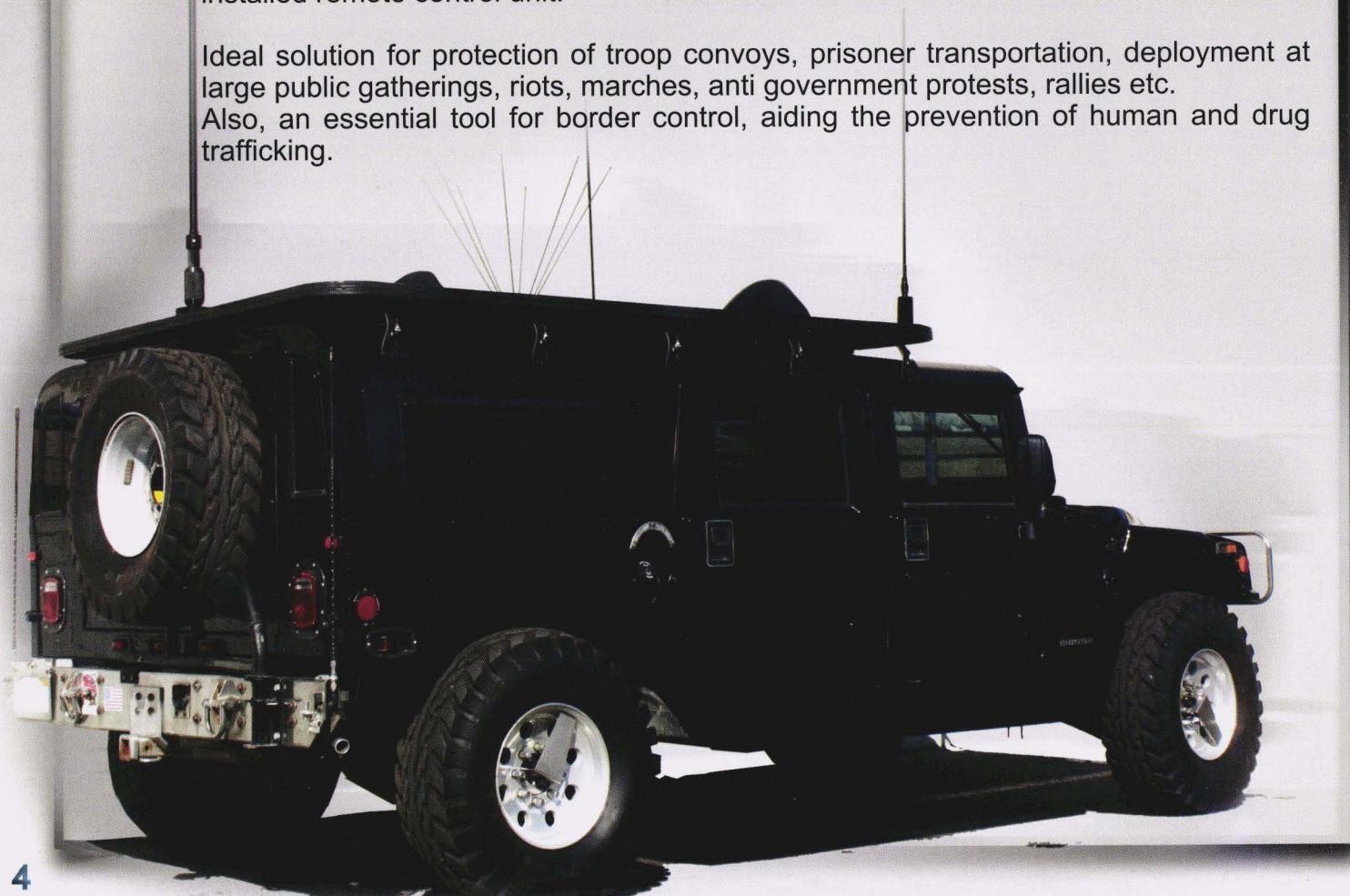
SESP's state-of-the-art RF jamming technology, coupled with sophisticated preparatory customization of the vehicle, provides a complete, fully tuned, ready for deployment turnkey solution.

The JAM-X system is suitable for installation on any military type SUV vehicle. The entire system is designed for fast and easy dismantling and Installation from one vehicle to another.

The special design of the system ensures continuous effective jamming protection whilst in transit in all road and weather conditions.

User friendly design. Full system activation and operation is controlled via a covertly installed remote control unit.

Ideal solution for protection of troop convoys, prisoner transportation, deployment at large public gatherings, riots, marches, anti government protests, rallies etc. Also, an essential tool for border control, aiding the prevention of human and drug trafficking.



**SESP JAMMERS - THE NEW GENERATION 2012**
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**JAM-X**  
**MK5 MILITARY**
**TRANSPORTATION PROTECTION**

Ultra high power broadband bomb jamming system employing new digital programmable window technology. Fully modular. For installation in military vehicles.

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**JAM-X**  
**MK5 VIP**
**CONVOY PROTECTION**

Ultra high power broadband bomb jamming system employing new digital programmable window technology. Fully integrated permanently into any type of full size SUV vehicles.

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**JAM-V**  
**MK5 VIP**
**CONVOY PROTECTION**

Super high power broadband bomb jamming system employing new digital programmable window technology. Designed for permanent integration into luxury type sedan vehicles.

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**JAM-K**
**NEW FULLY DIGITAL VEHICULAR SYSTEM**

Compact design. High power. Supplied in kit form for easy installation into any suitable vehicle.

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**PATROL- BJX**
**MULTI BAND TACTICAL BOMB JAMMER**

Very High power. Choice of HF/VHF/UHF & cellular bands. Upgraded design for full versatility and fast field deployment.

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**PATROL- T**
**FULLY PORTABLE TACTICAL JAMMER**

High power. Choice of CELLULAR/SATELLITE/W/LAN bands. Upgraded design for easy mobility and fast field deployment.

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**PATROL- P**
**SMALL VEHICLE OR FIXED LOCATION JAMMER**

Compact system for covert use inside vehicles or buildings.

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Range of broadband systems for fixed installation. Choice of configurations to suit individual customer requirements.

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**FREQUENCY BAND TABLE**

**For full table of frequency band options please refer to page 7 or 23**

## **INTRODUCTION**

SESP has been designing and manufacturing electronic security equipment for the security market since 1986.

Today, SESP is the foremost innovator in the field of RF jamming; offering a comprehensive range of jamming equipment and systems which have a proven record of highest efficiency and lasting performance in all environmental conditions. In countering the ever growing threat of remotely controlled improvised explosive devices (RCIEDs), SESP has invested heavily in the development of a range of State-of-the-art, multi band, very high power jamming systems for the protection of troop transportation, Military and Police checkpoints, large Governmental establishments, Bomb Disposal Squads and VIP convoys.

SESP's strength and success is due to a combination of several essential elements, including:

- A team of highly qualified and dynamic Personnel.
- The technology to offer unique customized jamming solutions.
- The personal attention given to each and every project; and followed through with continuous after-sales technical support and service.

## **DESIGN**

All SESP's products are designed to exacting standards, focusing on performance, reliability, ease of use and cost effectiveness.

Utilizing the latest and most advanced technologies, customer requirements are engineered into leading edge designs - outstanding in both quality and value.

## **MANUFACTURE**

Dedicated to total quality, SESP's manufacturing facilities are committed to producing products to the highest level.

## **SERVICE AND TRAINING**

SESP delivers a standard of customer care, attention and support which is second to none; and offers various options of product training to all End User Personnel.

*Dear Customer,*

*Thank you for your interest in our range of  
RF jammers.*

*Working closely with our clients, to understand their particular circumstances and needs, we deliver optimum jamming solutions to meet with their specific requirements.*

*As a Design Company, we are continuously endeavoring to give our customers more in terms of quality and efficiency. Therefore, we reserve the right to change specifications contained in this brochure at any time. By "change" we mean positive design/technological improvements which will only enhance the performance of the product.*

*We look forward to being of service to your company, and assure you of our best attention, full technical support and back up, and complete customer confidentiality at all times.*

*The SESP Group*



## Advantages and Features

Extremely wide frequency spectrum **from 25MHz to 6GHz**

Designed to jam most communication standards, cellular, satellite, walkie talkie radios etc., within the HF/VHF/UHF spectrum

We offer the option of providing our special DDS/FPGA "open communications window" technology for the walkie talkie radio frequencies.

Maximum overall RF output power **1750 Watts (CW)**

Up to 30 selected frequency bands within the spectrum of 25MHz to 6GHz; See full table of optional frequencies.

New design of modular ALL-IN system construction incorporating totally upgraded RF power amplifier modules with VSWR plus over-burning, over-current, and over-voltage protection.

Fully modular system is designed for easy replacement and maintenance.

Entire system, including special roof antenna kit, is designed for fast and easy dismantling and installation from one vehicle to another.

(Note: certain modifications to the vehicle would be required before system installation)

The system's operation is fully independent from the vehicle.

System's 3 power sources include:

1. SESP's Fully independent high reliability very high power (8kW) compact, silent DC generator with internal over-voltage, over-current and over-voltage protection.
2. Additional high power DC alternator.
3. Automatic emergency switching to high capacity back up batteries

Highest level of complete system protection; mechanical, electrical and RF.

Additional high efficiency dual active "smart" cooling systems; one dedicated to the high power generator and the other to the jamming system unit.

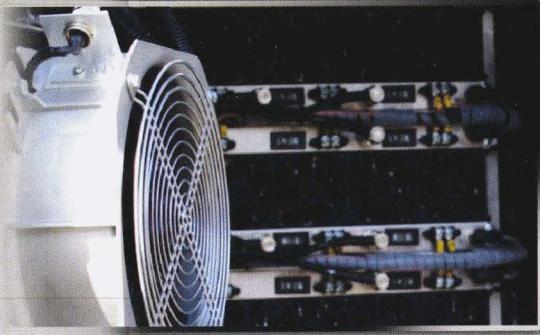
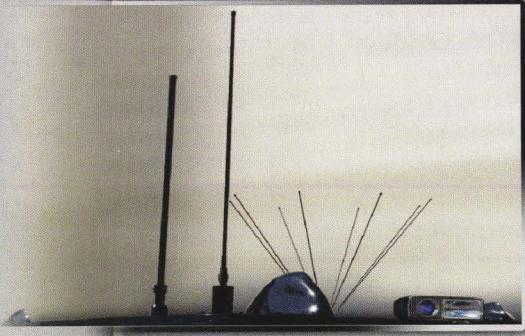
Can operate continuously and efficiently around the clock 24/7

Total system control and management via Operator's remote control unit.

Maintains the same excellent performance in all road and all weather conditions.

**FULL TECHNICAL SPECIFICATIONS AVAILABLE ON REQUEST**

\*Specifications are subject to change without prior notice



**JAM-X**  
MK5

**1750 WATTS • 30 BANDS • 25MHz – 6GHz**  
**MODULAR DESIGN FOR MILITARY PLATFORMS**

**JAM-X**



**FREQUENCY CHANNEL**    **Frequency band, MHz**    **FULL TABLE OF FREQUENCY BAND OPTIONS**

**Application**

1	(20)* 25 - 29	CB HF Walkie-Talkie Radio, Radio Controlled Toys, Car Alarms
2	29 - 50	LB VHF Walkie-Talkie Radio, Radio Controlled Toys, Car Alarms, Cordless Phones
3	50 - 66	Remote Controls, RF bugs, Amateur Radio
4	66 - 88	VHF Walkie-Talkie Radio, Remote Controls, RF bugs, Amateur Radio
5	88 - 135	Special RF Communication, FM radio, VHF TV broadcasting
6	135 - 175	VHF Walkie-Talkie Radio, Amateur Radio
7	175 - 300	Land Mobile Communication, Amateur Radio, VHF TV broadcasting
8	300 - 350	UHF300 Walkie-Talkie Radio
9	350 - 400	UHF350 Walkie-Talkie Radio, TETRA
10	400 - 470	Cellular NMT, CDMA450, UHF400 Walkie-Talkie Radio, Car Alarm, Amateur Radio
11	470 - 530	Cellular CDMA450, UHF450/500 Walkie-Talkie Radio
12	530 - 800	Wireless Communication, UHF TV broadcasting
13	800 - 851	Walkie-Talkie (UHF700/800), TETRA
14	851 - 894 (925)*	Cellular CDMA/TDMA, CDMA2000 (3G), UHF800 Walkie-Talkie Radio
15	925 - 960	Cellular GSM900, Cordless phones
16	960 - 1520	Wireless Communication, GPS (L2), Amateur Radio
17	1520 - 1670	GPS (L1) & Satellite: Thuraya, Iridium, Odyssey, GlobalStar, Inmarsat
18	1670 - 1805	Wireless Communication
19	1805 - 1880	Cellular HGSM1800/DCS
20	(1880)* 1930 - 1990	Cellular GSM1900/PCS {+PHS}
21	1990 - 2110	Wireless Communication
22	2110 - 2170	Cellular UMTS/WCDMA (3G)
23	2170 - 2300	Wireless Communication
24	2300 - 2500 (2700)*	WiFi IEEE 802.11b/g/n & Bluetooth & WLAN & WiMAX & MMDS
25	2700 - 3000	Wireless Communication
26	3000 - 3400	Wireless Communication
27	3400 - 3800	WiFi IEEE 802.11y, 802.16 & WiMAX
28	3800 - 5170	Wireless Communication
29	5170 - 5600	WiFi IEEE 802.11a/h/j/n
30	5600 - 5900 (6000)*	WiFi IEEE 802.11a/h/j/n

## for VIP convoy protection

Protecting VIPs from the threat of roadside bombs (IEDs or RCIEDs) has become a top priority for Governments and VIP Security Agencies in many countries around the world.

The new JAM-X Mk5 system delivers the most effective mobile RCIED neutralization to combat this threat.

The JAM-X Mk 5 is an ultra high power broad-and bomb jamming system, which is permanently integrated into the trunk of the vehicle in a covert manner. The system is designed to continuously and simultaneously block communication standards most commonly used by terrorists to detonate roadside bombs.

SESPs state-of-the-art RF jamming technology, coupled with sophisticated preparatory customization of the vehicle, provides a complete, fully tuned, ready for deployment, turnkey solution.

The JAM-X Mk5 system is suitable for permanent integration into full size SUVs.

The special design of the system ensures continuous effective jamming protection whilst in transit in all road conditions, plus all weather capability.

User friendly design. System activation and operation is controlled via a covertly installed remote control system.

Ideal solution for protection of VIP convoys, prisoner transportation, deployment at large public gatherings, riots, marches, anti government protests, rallies etc.

Also, an essential tool for border control, aiding the prevention of human and drug trafficking.



## Advantages and Features

- ✓ Extremely wide frequency spectrum **from 25MHz to 6GHz**
- ✓ Designed to jam most communication standards, cellular, satellite, walkie talkie radios etc., within the HF/VHF/UHF spectrum
- ✓ We offer the option of providing our special DDS/FPGA "open communications window" technology for the walkie talkie radio frequencies.
- ✓ Maximum overall RF output power **1650 Watts (CW)**
- ✓ Up to 30 selected frequency bands within the spectrum of 25MHz to 6GHz.  
**See full table of optional frequencies on page 7.**
- ✓ New design of modular ALL-IN system construction incorporating totally upgraded RF power amplifier modules with VSWR plus over-burning, over-current, and over-voltage protection.
- ✓ The modular system is fully integrated in a permanent manner inside the trunk of a full size SUV vehicle, and completely isolated from the driver/passenger compartment by an RF shielded, acoustic protected metal panel.
- ✓ The system's operation is fully independent from the vehicle.
- ✓ System's 2 power sources include:
  1. SESP's Fully independent high reliability very high power (8kW)compact, silent DC generator with internal over-voltage, over-current and over-voltage protection.
  2. Automatic emergency switching to high capacity back up batteries
- ✓ Highest level of complete system protection; mechanical, electrical and RF.
- ✓ Additional high efficiency dual active "smart" cooling systems; one dedicated to the high power generator and the other to the jamming system unit.
- ✓ Can operate continuously and efficiently around the clock 24/7
- ✓ Total system control and management via Operator's remote control unit.
- ✓ Maintains the same excellent performance in all road and all weather conditions.

FULL TECHNICAL SPECIFICATIONS AVAILABLE ON REQUEST

\*Specifications are subject to change without prior notice

## for VIP convoy protection

Protecting Heads of State and Government Officials from the threat of roadside bombs (IEDs or RCIEDs) has become a top priority for Governments and VIP Security Agencies in many countries around the world.

The new JAM-V Mk5 system delivers the most effective mobile RCIED neutralization to combat this threat.

The JAM-V Mk 5 is an ultra high power broad-and bomb jamming system, which is permanently integrated into the trunk of the VIP vehicle in a covert manner, after some preliminary customization work has been carried out to the vehicle.

This customization work to the interior of the vehicle is carried out in our own workshops, where very special attention is given to the finish – ensuring that it is in the same original ex factory pristine condition.

In spite of carrying the extra weight of the system, the vehicle still feels and drives like a normal vehicle, and provides the same passenger comfort.

The system is designed to continuously and simultaneously block communication standards most commonly used by terrorists to detonate roadside bombs.

SESPs state-of-the-art RF jamming technology, coupled with sophisticated preparatory customization of the vehicle, provides a complete, fully tuned, ready for deployment, turnkey solution.

The JAM-V Mk5 system is suitable for permanent integration into any luxury sedan car.

The special design of the system ensures continuous effective jamming protection whilst in transit in all road conditions, plus all weather capability.

User friendly design. System activation and operation is controlled via a covertly installed remote control unit.



## Advantages and Features



- ✓ Extremely wide frequency spectrum **from 25MHz to 6GHz**
- ✓ Designed to jam most communication standards, cellular, satellite, walkie talkie radios etc., within the HF/VHF/UHF spectrum
- ✓ We offer the option of providing our special DDS/FPGA "open communications window" technology for the walkie talkie radio frequencies.
- ✓ Maximum overall RF output power **1100 Watts (CW)**
- ✓ Up to 30 selected frequency bands within the spectrum of 25MHz to 6GHz.  
**See full table of optional frequencies on page 7.**
- ✓ New design of modular ALL-IN system construction incorporating totally upgraded RF power amplifier modules with VSWR plus over-burning, over-current, and over-voltage protection.



- ✓ The system's operation is fully independent from the vehicle.
- ✓ System's 2 power sources include:
  1. SESP's Fully independent high reliability very high power (8kW) compact, silent DC generator with internal over-voltage, over-current and over-voltage protection.
  2. Automatic emergency switching to high capacity back up batteries
- ✓ Highest level of complete system protection; mechanical, electrical and RF.
- ✓ Additional high efficiency dual active "smart" cooling systems; one dedicated to the high power generator and the other to the jamming system unit.
- ✓ Can operate continuously and efficiently around the clock 24/7
- ✓ Total system control and management via Operator's remote control unit.
- ✓ Maintains the same excellent performance in all road and all weather conditions.



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**FULLY DIGITAL HIGH POWER JAMMER KIT.  
FAST & EASY SELF INSTALLATION\***

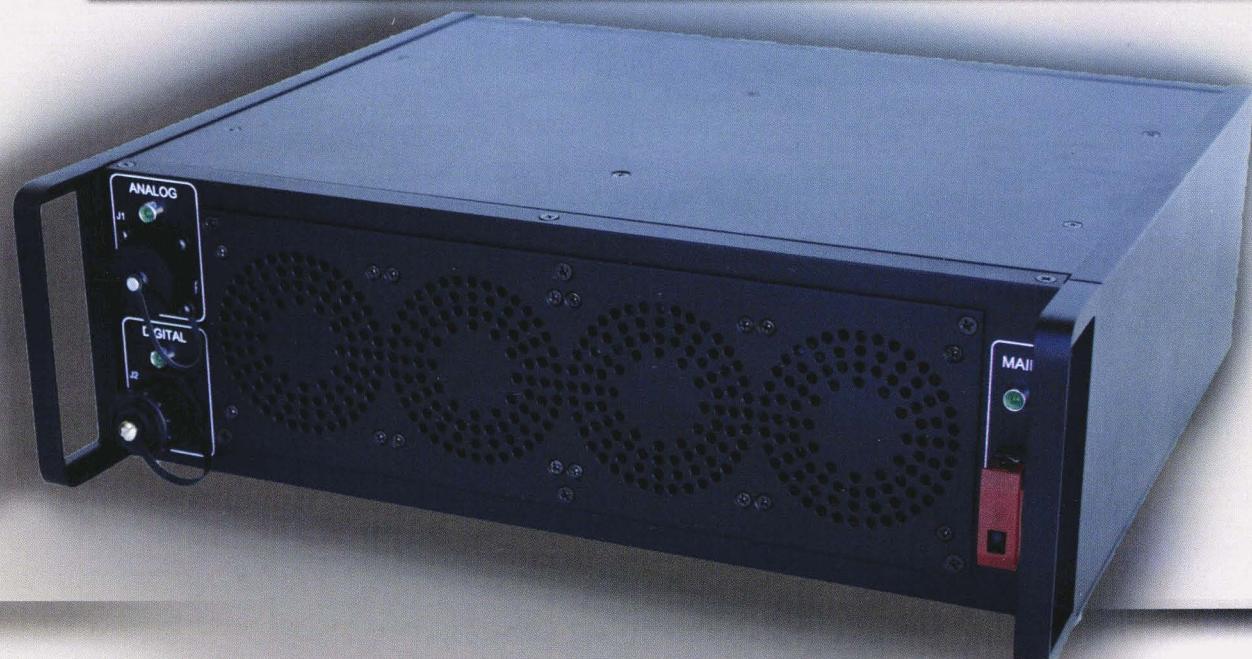
The new JAM-K fully digital communication jamming system is a user friendly, cost effective solution, developed by SESP to provide the End User with a high power broad-band vehicular system in a smaller, more compact form; designed for fast and easy installation into any type of vehicle.

The new fully digital JAM-K system covers HF/VHF/UHF bands using the latest DDS/FPGA technology, fully controlled by GUI software.

Special “open communication window” technology allows for friendly communication within the jammed spectrum – without reducing the efficiency of other frequencies.

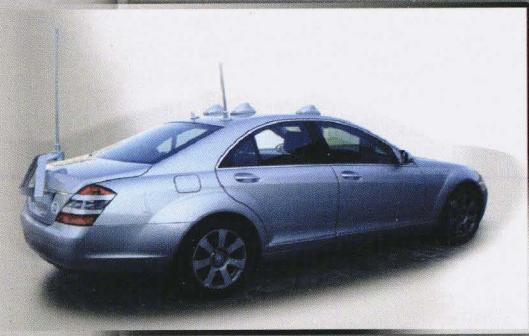
The new JAM-K system has been developed to serve the needs of mobile units such as border control vehicles, police patrol units, bomb squads, armored security vehicles, as well as private VIP vehicles.

Frequency channel	Frequency band, MHz	Application
1	25 - 50	LB VHF Walkie -Talkie Radio, Radio Controlled Toys, Car Alarms, Cordless Phones
2	66 - 88	VHF Walkie -Talkie Radio, Remote Controls, RF bugs, Amateur Radio
3	136 - 174	VHF Walkie -Talkie Radio, Amateur Radio
4	403 - 470	Cellular NMT, CDMA450, UHF400 Walkie -Talkie Radio, Car Alarm, Amateur Radio
5	470 - 527	Cellular CDMA450, UHF450/500 Walkie -Talkie Radio
6	851 - 894	Cellular CDMA/TDMA, CDMA2000 (3G), UHF800 Walkie -Talkie Radio
7	925 - 960	Cellular GSM900, Cordless phones
8	1520 - 1670	GPS (L1) & Satellite: Thuraya, Iridium, Odyssey, GlobalStar, Inmarsat
9	1805 - 1880	Cellular HGSM1800/DCS
10	1930 - 1990	Cellular GSM1900/PCS {+PHS}
11	2110 - 2170	Cellular UMTS/WCDMA (3G)
12	2300 - 2500	WiFi IEEE 802.11b/g/n & Bluetooth & WLAN & WiMAX & MMDS
13	3400 - 3800	WiFi IEEE 802.11y, 802.16 & WiMAX
14	5400 - 5800	WiFi IEEE 802.11a/h/j/n



## Advantages and Features of the new Digital JAM-K system

- ✓ 14 selected, fully programmable frequency bands from **25MHz to 5.8Hz** (see frequency band table)
- ✓ Special DDS/FPGA "open communications window" technology for the walkie talkie radio devices.
- ✓ Maximum overall RF output power **350 Watts (CW)**
- ✓ New **all-in-one** construction design incorporating totally upgraded RF power amplifier modules with VSWR plus over-burning, over current, and over-voltage protection.
- ✓ Technology allows for optimal utilization of output power. (i.e. concentration of power only to a section of a specific frequency band).
- ✓ Designed for easy installation, operation and maintenance.
- ✓ Entire system is designed for fast and easy dismantling and installation from one vehicle to another.
- ✓ The system is fully powered from the vehicle's original power source (alternator).
- ✓ Highest level of complete system protection; mechanical, electrical and RF.
- ✓ High efficiency active "smart" cooling system.
- ✓ Can operate continuously and efficiently around the clock 24/7.
- ✓ Total system control and management via Operator's remote control unit and/or software.
- ✓ Maintains the same excellent performance in all road and all weather conditions.



FULL TECHNICAL SPECIFICATIONS AVAILABLE ON REQUEST

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**UP TO 500 WATTS**

• 12 BANDS • 25MHz - 6GHz

MULTI-USE, PORTABLE & VEHICULAR

# PATROL- BJX

## Highly powerful, multi-use tactical jammer.

The PATROL-BJX is a very efficient, very versatile, state-of-the-art multi-band HF/VHF/UHF communication jamming system, which can be supplied for vehicle installation, and/or portable use, and/or fixed installation in large public venues.

This system is tailor-made according to customers' choice of frequency bands (within the wide band spectrum of 25MHz – 6GHz); choice of RF output powers (up to 300 watts or more), as well as choice of optional additional features, accessories and antenna types.

The jamming system is integrated into a specially designed shockproof, vibration proof, weatherproof trolley type Milstyle Pelican case with RF shielded internal metal enclosure.

A smart active cooling system enables unlimited continuous operation in all climatic conditions.

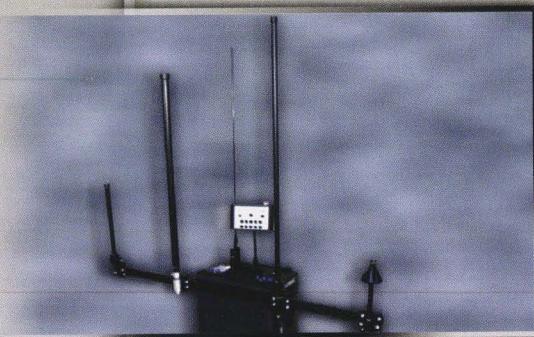
The Operator's remote control unit enables on/off control for each individual frequency band as well as full system control.

The PATROL-BJX is the ideal tool for military field work, bomb disposal squads, general policing activities, and border control.

User friendly design, providing ease of mobility, installation and use.



## Advantages and Features of the PATROL-BJX



- ✓ Ease of mobility, set up and use
- ✓ Jams continuously and simultaneously up to 12 selected frequency bands within the HF/VHF/UHF spectrum of **25MHz to 6GHz**  
**See full table of optional frequencies on page 7.**
- ✓ Maximum overall RF output power **500 watts (CW)** (or up to 300 watts with internal batteries)
- ✓ Highest level of complete system protection
- ✓ High power RF amplifiers with VSWR antenna protection and temperature self-protection technology
- ✓ High efficiency active "smart" cooling system
- ✓ Can operate continuously and efficiently around the clock 24/7
- ✓ Total system control and management via Operator's remote control unit
- ✓ Choice of high gain antenna types for different channels
- ✓ Choice of three external/internal power sources: AC, DC, Internal batteries
- ✓ Overall weight and size depends on system configuration
- ✓ Optional RF output power level adjustment for each frequency band

FULL TECHNICAL SPECIFICATIONS AVAILABLE ON REQUEST

\*Specifications are subject to change without prior notice

## High power fully portable jammer.

The PATROL-T is a highly efficient, multi - band, lightweight, fully portable communication jammer. (with internal rechargeable batteries)

Constructed to block a combination of cellular/satellite mobile phones and/or WLAN and other wireless communication links, this jammer is ideal for anti-terror security applications and VIP protection.

The jamming system is integrated into a specially designed shockproof, vibration proof ,weatherproof trolley type Milstyle Pelican case with RF shielded internal metal enclosure.

The jammer is tailor-made according to the cellular/satellite standards operating in country of use as well as antenna preference and other optional features.

A smart active cooling system enables unlimited continuous operation in all climatic conditions.

Fine tuning ensures that there is no interference or disruption of other adjacent communication links used by military, police and ambulance services etc.

User friendly for fast and easy field operation.

Can be supplied with additional special vehicle roof antenna kit for mobile use.



## Advantages and Features of the PATROL-T



- ✓ Ease of mobility, set up and use.
- ✓ Jams continuously and simultaneously up to 6 selected cellular/satellite/WLAN frequency band  
**See full table of optional frequencies on page 7.**



- ✓ Maximum RF output power **15 watts** (CW) per band
- ✓ Highest level of complete system protection
- ✓ High power RF amplifiers with VSWR antenna protection and temperature self-protection technology
- ✓ High efficiency active "smart" cooling system
- ✓ Can operate continuously and efficiently around the clock 24/7



- ✓ Choice of internal/external antenna types for different applications
- ✓ Operates from external AC, DC and Internal high capacity rechargeable batteries
- ✓ Overall weight and size depends on system configuration

- ✓ Optional RF output power level adjustment for each frequency band

- ✓ Optional wired on/off remote control unit
- ✓ Optional vehicle installation kit comprising, remote control unit, low profile roof antennas with special low loss RF cables.



FULL TECHNICAL SPECIFICATIONS AVAILABLE ON REQUEST

\*Specifications are subject to change without prior notice

**UP TO 120 WATTS**

**6 BANDS • 25MHz – 6GHz**

**SMALL & COMPACT. FOR VEHICLES & INDOOR USE**

# PATROL-P

**small, powerful jammer for mobile use or fixed installation.**

The PATROL-P is a highly efficient multi-band communication Jammer. Its small compact design enables covert use inside smaller type patrol vehicles, or inside "sensitive" locations such as meeting rooms; detention centers; examination halls.

The PATROL-P is built into a specially designed shockproof, vibration proof and RF shielded internal metal enclosure within a weatherproof Milstyle Pelican case.

The jammer is tailor-made according to customer requirements in terms of frequency bands, RF output power allocation per band and antenna preference.  
The jammer can also be constructed to include a cellular detector element (either internal or external).

A smart active cooling system enables unlimited continuous and noiseless operation in all climatic conditions.

Fine tuning ensures that there is no interference or disruption of other adjacent communication links used by military, police and ambulance services etc.

User friendly. Fast and easy to install and operate.



## **Advantages and Features of the PATROL-P**



- ✓ Easy installation and use in fixed locations, or in any type of transportation

- ✓ Jams continuously and simultaneously up to 6 selected cellular/satellite/WLAN frequency bands.

**See full table of optional frequencies on page 7.**

-  Maximum overall RF output power 120 watts (CW)



-  Highest level of complete system protection

- ✓ High power RF amplifiers with antenna VSWR protection and temperature self- protection technology

- ✓ High efficiency active “smart” cooling system

- ✓ Can operate in a continuous, efficient and noiseless manner around the clock 24/7



- ✓ Choice of external antenna types for different applications

-  Operates from external AC and/or DC

- ✓ Overall weight and size depends on system configuration. (Either Pelican case model 1400 or 1200)

- ✓ Optional RF output power level adjustment for each frequency band



- ✓ Optional vehicle installation kit comprising, remote control unit, low profile roof antennas with special low loss RF cables.

- ✓ Optional “Detector” element

ALL TECHNICAL SPECIFICATIONS AVAILABLE ON REQUEST

**Range of highly powerful jamming systems for sensitive locations.**

The DEFEND-R state-of-the-art multi-band communication jamming systems, are designed for permanent installation in large locations such as prison facilities, military bases, large public venues.

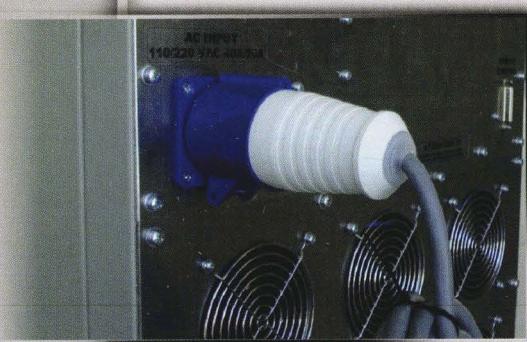
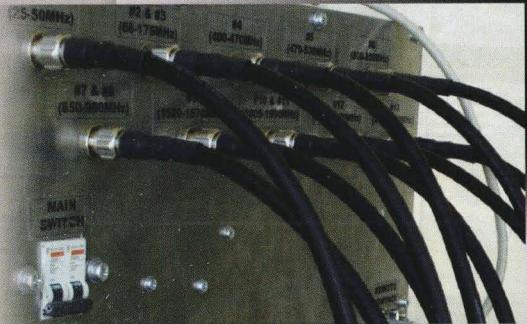
The DEFEND-R systems are tailor-made according to customers' choice of frequency bands (within the wide band spectrum of 25MHz – 6GHz); choice of RF output powers (up to 2000 watts per enclosure), as well as choice of additional features, accessories and antenna types.

The DEFEND-R jamming systems are integrated into specially designed shockproof, vibration proof metal enclosures, and equipped with smart active cooling systems - enabling continuous efficient around the clock 24/7 safe operation.

User friendly design, providing ease of installation, operation and maintenance.



## Advantages and Features of the DEFEND-R systems



- ✓ Easy installation, control and maintenance
- ✓ Secure design to avoid sabotage
- ✓ Every system is tailor-designed according to customer requirements. Weight of complete system as well as quantity of modules/enclosures will depend on final configuration design
- ✓ Jams continuously and simultaneously selected frequency bands with the HF/VHF/UHF spectrum of **10MHz to 6GHz**  
See frequency band table.
- ✓ Maximum overall RF output power per enclosure  
**2000 watts**
- ✓ Highest level of complete system protection
- ✓ Modular design based on ultra high power RF amplifiers with VSWR antenna protection and temperature self-protection technology.
- ✓ Constructed inside a specially designed shockproof, anti vibration and RF shielded metal enclosure
- ✓ High efficiency active "smart" cooling system
- ✓ Total system control and management via Operator's remote control unit
- ✓ Choice of external high gain antenna types for different channels
- ✓ Operates from AC mains power; DC input provided for UPS emergency back-up power
- ✓ Can operate continuously and efficiently around the clock 24/7
- ✓ Optional PC control via existing Ethernet network

FULL TECHNICAL SPECIFICATIONS AVAILABLE ON REQUEST

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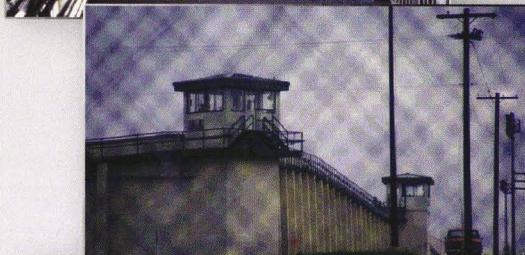
# DEFEND-R

**2000 WATTS+**

**UP TO 30 BANDS 10MHz – 6GHz**

**FIXED INSTALLATION OPERATION 24/7**

# DEFEND-R



**FULL TABLE OF FREQUENCY BAND OPTIONS**  
**Frequency channel      Frequency band, MHz      Application**

1	(20)* 25 - 29	CB HF Walkie-Talkie Radio, Radio Controlled Toys, Car Alarms
2	29 - 50	LB VHF Walkie-Talkie Radio, Radio Controlled Toys, Car Alarms, Cordless Phones
3	50 - 66	Remote Controls, RF bugs, Amateur Radio
4	66 - 88	VHF Walkie-Talkie Radio, Remote Controls, RF bugs, Amateur Radio
5	88 - 135	Special RF Communication, FM radio, VHF TV broadcasting
6	135 - 175	VHF Walkie-Talkie Radio, Amateur Radio
7	175 - 300	Land Mobile Communication, Amateur Radio, VHF TV broadcasting
8	300 - 350	UHF300 Walkie-Talkie Radio
9	350 - 400	UHF350 Walkie-Talkie Radio, TETRA
10	400 - 470	Cellular NMT, CDMA450, UHF400 Walkie-Talkie Radio, Car Alarm, Amateur Radio
11	470 - 530	Cellular CDMA450, UHF450/500 Walkie-Talkie Radio
12	530 - 800	Wireless Communication, UHF TV broadcasting
13	800 - 851	Walkie-Talkie (UHF700/800), TETRA
14	851 - 894 (925)*	Cellular CDMA/TDMA, CDMA2000 (3G), UHF800 Walkie-Talkie Radio
15	925 - 960	Cellular GSM900, Cordless phones
16	960 - 1520	Wireless Communication, GPS (L2), Amateur Radio
17	1520 - 1670	GPS (L1) & Satellite: Thuraya, Iridium, Odyssey, GlobalStar, Inmarsat
18	1670 - 1805	Wireless Communication
19	1805 - 1880	Cellular HGSM1800/DCS
20	(1880)* 1930 - 1990	Cellular GSM1900/PCS {+PHS}
21	1990 - 2110	Wireless Communication
22	2110 - 2170	Cellular UMTS/WCDMA (3G)
23	2170 - 2300	Wireless Communication
24	2300 - 2500 (2700)*	WiFi IEEE 802.11b/g/n & Bluetooth & WLAN & WiMAX & MMDS
25	2700 - 3000	Wireless Communication
26	3000 - 3400	Wireless Communication
27	3400 - 3800	WiFi IEEE 802.11y, 802.16 & WiMAX
28	3800 - 5170	Wireless Communication
29	5170 - 5600	WiFi IEEE 802.11a/h/j/n
30	5600 - 5900 (6000)*	WiFi IEEE 802.11a/h/j/n

In addition to the comprehensive range of RF jamming equipment and systems described in this brochure, SESP also specializes in the development of custom made RF jamming solutions.

SESP's Design Engineers assist the Customer from the outset by initially determining the suitability of SESP's technology for the specific application; and then by defining a specification appropriate for the Customer's technical and cost goals.

To ensure complete compatibility with our jammer modules, we develop our own high grade power supplies, power amplifiers, cooling systems and different gain antennas.

SESP's stringent quality control procedures, ensure product reliability.



SESP group  
Data House  
43-45 Stamford Hill  
London E5 9BN, UK

Tel: +44 2070438763  
Fax: +44 2076811175

[www.sesp.com](http://www.sesp.com) | [info@sesp.com](mailto:info@sesp.com)