



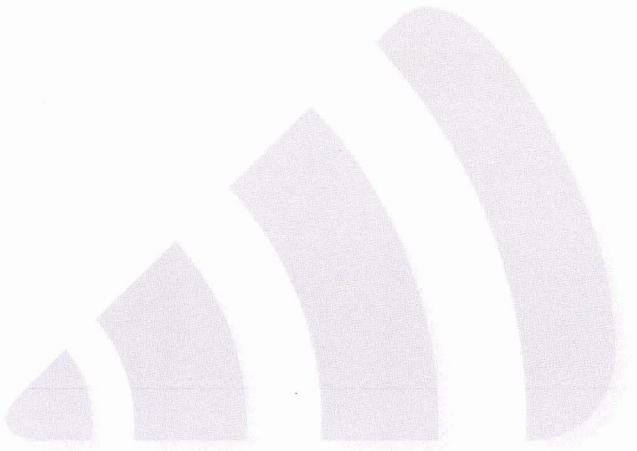
# PHANTOM

TECHNOLOGIES LTD.  
ADVANCED JAMMING SOLUTIONS

[www.phantom.co.il](http://www.phantom.co.il)



**ADVANCED JAMMING SOLUTIONS**



**PHANTOM**  
TECHNOLOGIES LTD.  
ADVANCED JAMMING SOLUTIONS

Dear Customer,

Thank you for your interest in our range of cellular and RF products.

We work closely with our clients and invest our best efforts to advise and solve our client's needs. Thus we are able to create the most effective jamming solution necessary for individual problems.

As a leading developer and manufacturer we continuously endeavor to provide our customers with maximal quality and efficiency. We achieve this by using advanced technology and components that are custom designed to meet our client's specifications.

We look forward to a productive collaboration with your Company and promise you our utmost attention, full technical support and product guaranty.

phantom Technologies Ltd

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# Cell Phone Jammers

## CCJ&SMJ Series



The CCJ Series was designed to block cellular networks for all cellular standards worldwide.

The CCJ Series use state-of-the-art technology for maximum performance.

The unit is controlled by the Microprocessor for PLL programming.

The CCJ device transmits a noise signal which disconnects all cellular communication between mobile phones / base stations.

The SMJ device is based on digital technology, hence it is capable of jamming BCCH channels only.

Based on this technology, jamming distance is up to 10 times more than with analog technology.

SMJ Series has been designed especially for prison jamming applications.

The result: all cellular signals near the jammers will be totally BLOCKED and cell-phones will be unable to receive or make calls.

When a CCJ or SMJ device impacts a mobile phone, the display will show "NO SERVICE".



# **Cellular Jammer**

## Low & Medium Power

### For conference rooms

Models CCJ100/CCJ470

## General Description

The CCJ100 & CCJ470 was designed to block cellular networks for all cellular standards worldwide.

The CCJ100 & CCJ470 use state-of-the-art technology for maximum performance.

The unit is controlled by Microprocessor for PLL programming.

The CCJ100 & CCJ470 transmit noise signals which disconnects all cellular communication between mobile phones / base stations.

The jamming radius depends on the strength of the signal in given area.

All cellular signals near the CCJ100 & CCJ470 will be totally BLOCKED and will be unable to receive or make calls.

When CCJ100 & CCJ470 impacts a mobile phone the display will show "NO SERVICE".

## Applications

Libraries

Court-rooms

Offices

Concert halls & theaters



## Technical Specification of CCJ100

<b>RF Characteristics</b>	
Output Power per band	0.5W (3.5W total)
Internal Modulation	FM Hopping frequency
Signal Source	PLL synthesized
Power Supply	12VDC regulated
Modules Per Unit	Up to 7 bands
Remote Control	Infrared
Antenna	External Omni-Directional
<b>Jamming Frequency Bands</b>	
Frequency Bands	Up to 7 bands of the following 425-475 MHz 851/869-894 MHz 925/935-960 MHz 1805-1880 MHz 1930-1990 MHz 2110-2170 MHz 2400-2483 MHz
Air Interface Standards	Digital : IDEN, TDMA, CDMA, GSM, UMTS Analog : AMPS, MNT, N-AMPS, TACS,Wi-Fi
<b>Physical Data</b>	
Dimensions	230 x 180 x 50 mm
Weight (w/o batteries)	Approx. 700 g
Weight (with batteries)	Approx. 1.1Kg
<b>Environment of operation</b>	
Operating Temp.	0°C - +60°C
Humidity	5% - 80%
<b>Optional Accessories</b>	
Rechargeable Battery	1.5 AH
Control Cable Via PC	RS232
DC-DC Converter	Built In

## Technical Specification of CCJ470

<b>RF Characteristics</b>	
Output Power per band	4W (20W total)
Internal Modulation	FM Hopping frequency
Signal Source	PLL synthesized
Power Supply	220VAC / 12VDC
Modules Per Unit	1-5 bands
Remote Control	Infrared (option)
Antenna	External Omni-Directional
<b>Jamming Frequency Bands</b>	
Frequency Bands	851/869-894 MHz 925/935-960 MHz 1805-1880 MHz 1930-1990 MHz 2110-2170 MHz
Air Interface Standards	Digital : IDEN, TDMA, CDMA, GSM, UMTS Analog : AMPS, MNT, N-AMPS, TACS Wi-Fi
<b>Physical Data</b>	
Dimensions	400 x 380 x 160 mm
Weight (w/o batteries)	Approx. 6 Kg
<b>Environment of operation</b>	
Operating Temp.	-20°C - 60°C
Humidity	5% - 80%
<b>Optional Accessories</b>	
Rechargeable Battery	6AH
Control Cable Via PC	RS232
DC-DC Converter	Built In

# **Portable Cellular Jammer**

## Medium Power

**Model CCJ800PL**  
**15w Output**  
**Power/band**

### **General Description**

The CCJ800PL was designed to block GSM cellular networks for all cellular standards worldwide.

The CCJ800PL uses state-of-the-art technology for maximum performance.

The unit is controlled by Microprocessor for PLL programming.

The CCJ800PL transmits a noise signal which disconnects all cellular communication Between mobile phones / base stations.

The jamming radius depends on the strength of the signal in the given area.

All cellular signals near the CCJ800PL will be totally BLOCKED and will be unable to receive or make calls.

When CCJ800PL is activated the mobile display will show "NO SERVICE".

### **Applications**

15w Output  
Power/band  
Portable  
Cellular Jammer  
Medium Power  
Police  
Special army units



## Technical Specification

<b>RF Characteristics</b>	
Output Power per band	15W
Internal Modulation	FM Hopping frequency
Signal Source	PLL synthesized
Power Supply	110/220VAC or 24VDC regulated
Modules Per Unit	5 Bands
Remote Control	Optional
Antennas	External 8 dBi gain Directional or Omni-Directional
<b>Jamming Frequency Bands</b>	
Frequency Bands	425-475 MHz 851/869-894 MHz 925/935-960 MHz 1805-1880 MHz 1930-1990 MHz 2110-2170 MHz
Air Interface Standards	Digital: IDEN, TDMA, CDMA, GSM, UMTS Analog: AMPS, MNT, N-AMPS, TACS
<b>Physical Data</b>	
Dimensions	Pelican 1600 55.3 x 42.4 x 27 cm
Weight	Approx. 15Kg
<b>Environment of operation</b>	
Operating Temp.	-20°C - +65°C
Humidity	5% - 80%
<b>Optional Accessories</b>	
Rechargeable Battery	External 25.9V/18AH
Control Cable Via PC	Wired
DC-DC Converter	External 12-24VDC
Internal Batteries	
Capacity	25.9VDC / 27 AH
Type	Lithium-Polymer
Duration	Min. 2 Hours

# Cell Phone Detection and Jamming Solution for Prison Compounds



## Brief Description of Problem & Solution

It is recognized that contemporary prisons worldwide face a new problem - Cellular Phones.

With cellular phones being smart as laptops and small as a pack of gum, it is available to all inmates. From inside the prison criminals control business, Coordinate escape efforts, obstruct investigations and can access information. Phantom Technologies Ltd. provides a wide diversity of jamming devices to Create "cellular-free space" inside the prison, thus preventing all cellular traffic. Our state-of-the-art technology provides effective and reliable jamming of the entire compound.

After conducting a sight-survey, our technical engineers calculate output power and the number of devices required. After calibrating antennas, no cellular calls are possible inside the compound.

Also, a number of jamming options can be supplied:

Diverse software is available, depending on site requirements and complexity. Customized solution is also available, such as unblocking cellular zones for the staff.

Separate continuous and non-continuous jamming of different areas.

Installation of special cellular detectors to switch jammers on automatically when cellular traffic is detected.

Digital technology allows high jamming efficiency.

Control center for real-time monitoring of jamming process & parameters

Different types of software are offered depending on site requirements and complexity. Customize solution is also available.

## Phantom technology's Installations at Prison Sites



## Advanced Jamming Solution based on Digital Technology Control Center

Phantom Technology offers control software which provides real time information about detection and jamming process and parameters.

As part of the software, a detailed Log-File is saved for future use.

### Monitored Parameters

Detection state

Jammers state

Output Power

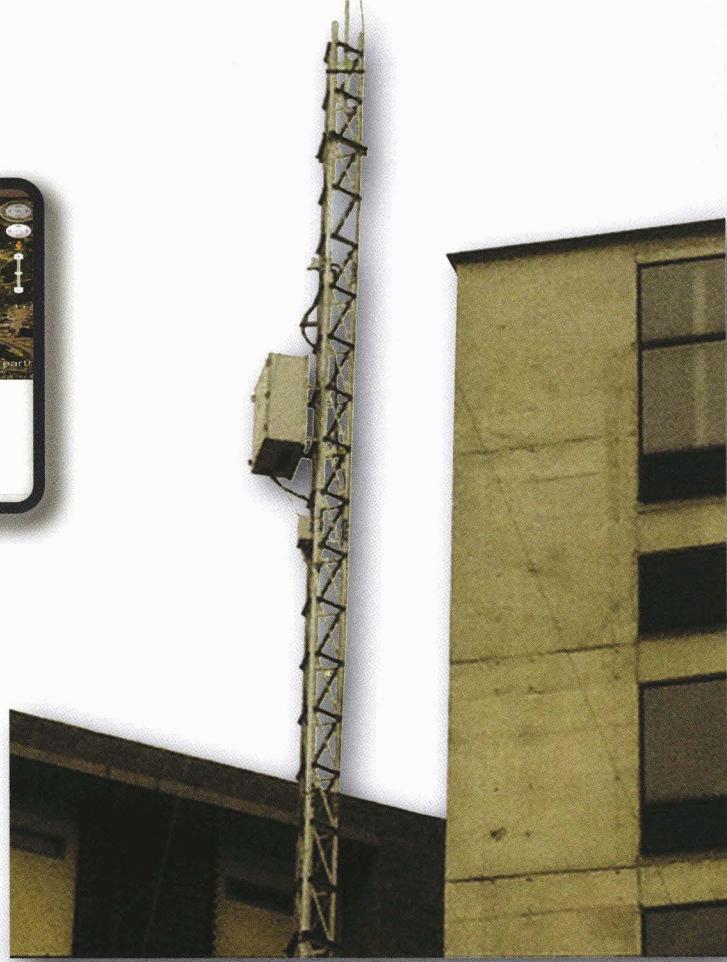
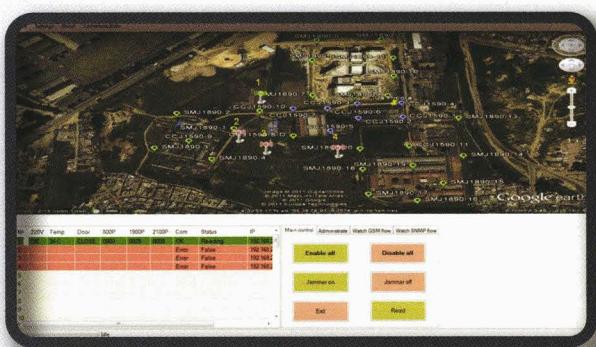
Antenna disconnection

Unit temperature

Unit tampered

Monitored Parameters

Control Center



# **Smart Cellular Jammer**

for prisons sites  
and military units

**Models SMJ1890**  
**Up to 100W**  
**Output Power/Band**  
**Very High Power**

## **General Description**

The SMJ1890 was designed to block GSM cellular network and all kinds of cellular standards in the world.

The SMJ1890 uses state-of-the-art technology for maximum performance.

The unit is controlled by Microprocessor for PLL & DDS programming.

The unit has been designed with jamming capabilities of specific channels inside the cellular networks bands only.

The unit is based on DDS (Direct Digital Synthesis) that can be programmable to transmit up to 36 channels per band, by fast sweeping between each channel.

Channel bandwidth is 250 KHz.

The user can control the output power of each band by a programmable attenuator.

Output power can be varied from 5W up to 100W within 1dB steps.

The SMJ1890 transmits a noise signal which cuts-off all cellular communication between mobile phones and cellular BTS.

All cellular mobiles in the vicinity of SMJ1890 will be totally BLOCKED and will not be able to receive or dial outgoing calls.

## **Applications**

Prisons  
Military Units  
Special Police Units  
Government Facilities



## Technical Specification

<b>RF Characteristics</b>	
Max. Output Power per Band	100W
Min. Output Power per Band	5W
Output Power Control Steps	1dB
Internal Modulation	FM Hopping Frequency
Signal Source	DDS & PLL synthesized
Power Supply	12/28VDC regulated or 110/220VAC
Modules Per Unit	Up to 3 bands
Programming Control	RS232
Antenna	External - Directional 14 dBi gain or Omni-Directional Antenna outputs includes VSWR protector
<b>Jamming Frequency Bands</b>	
Frequency Bands	425-475 MHz 824-849/851-894 MHz 880-915/925-960 MHz 1710-1785/1805-1880 MHz 1850-1910/1930-1990 MHz 1920-1980/2110-2170 MHz
Channel Band Width	250KHz
Channel Spacing	200KHz
Air Interface Standards	Digital: iDEN, TDMA, CDMA, GSM, UMTS Analog: AMPS, MNT, N-AMPS, TACS
Maximum Sweeping Channels per Band	36
<b>Physical Data</b>	
Dimensions	500 x 430 x 180 mm
Weight	Approx. 20Kg
<b>Environment of operation</b>	
Operating Temp.	-10°C - +65°C
Humidity	5% - 80%
<b>Optional Accessories</b>	
Rechargeable Battery	24VDC / 70AH
Control Cable Via PC	LAN or RS232 – 9 pins CABLE



# Convoy Jammers for Military, HLS and Civilian use



Vehicle-mounted counter IED jammers are designed to isolate all RCIED threats from terrorists and insurgents.

The systems are available in multiple configurations. They vary in frequency coverage, output power, peripheral systems and backup power.

System coverage around the vehicle is 360°, which provides full protection for all vehicles in the convoy. This is achieved by utilizing Phantom-designed Omni-directional antennas for maximum gain.

All solutions offered by Phantom incorporate digital technology, software defined parameters, and user interface for system programming.

Multiple Open Communication Windows (OCW) can be user-programmed to support internal communications within the convoy, while maintaining full jamming capacity.

# CONVOY JAMMER

Very High Output Power

RCJ1390LT-I Jammer  
Total output power: 1,535W

The RCJ1390LT-I convoy jammer is Phantom's most popular model.

The system features:

- High power jamming output.
- Wide band coverage, isolating all known threats.
- High system availability using the most advanced GaN transistor technology.
- Programmable Open Communication Windows are standard.

All jamming channels are completely independent. They start with a low power jamming signal source, via channels' amplifier, to independent high-gain Omni-directional antenna.

A specially-fitted auxiliary power unit (comprising ruggedized generator / backup battery pack) enables system to operate independently from vehicle power.

An easy-to-use remote control console located in the driver's cabin enables easy operation of the system. Specific bands are available if needed. The RC displays system status / malfunctions if these occur.

The RC also serves as a programming dock to change system settings.

## Applications

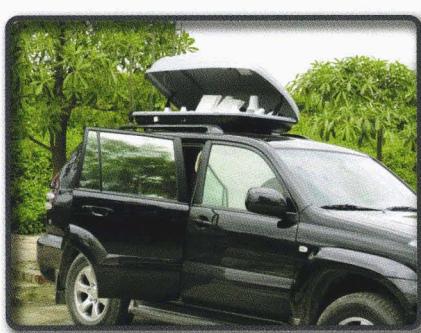
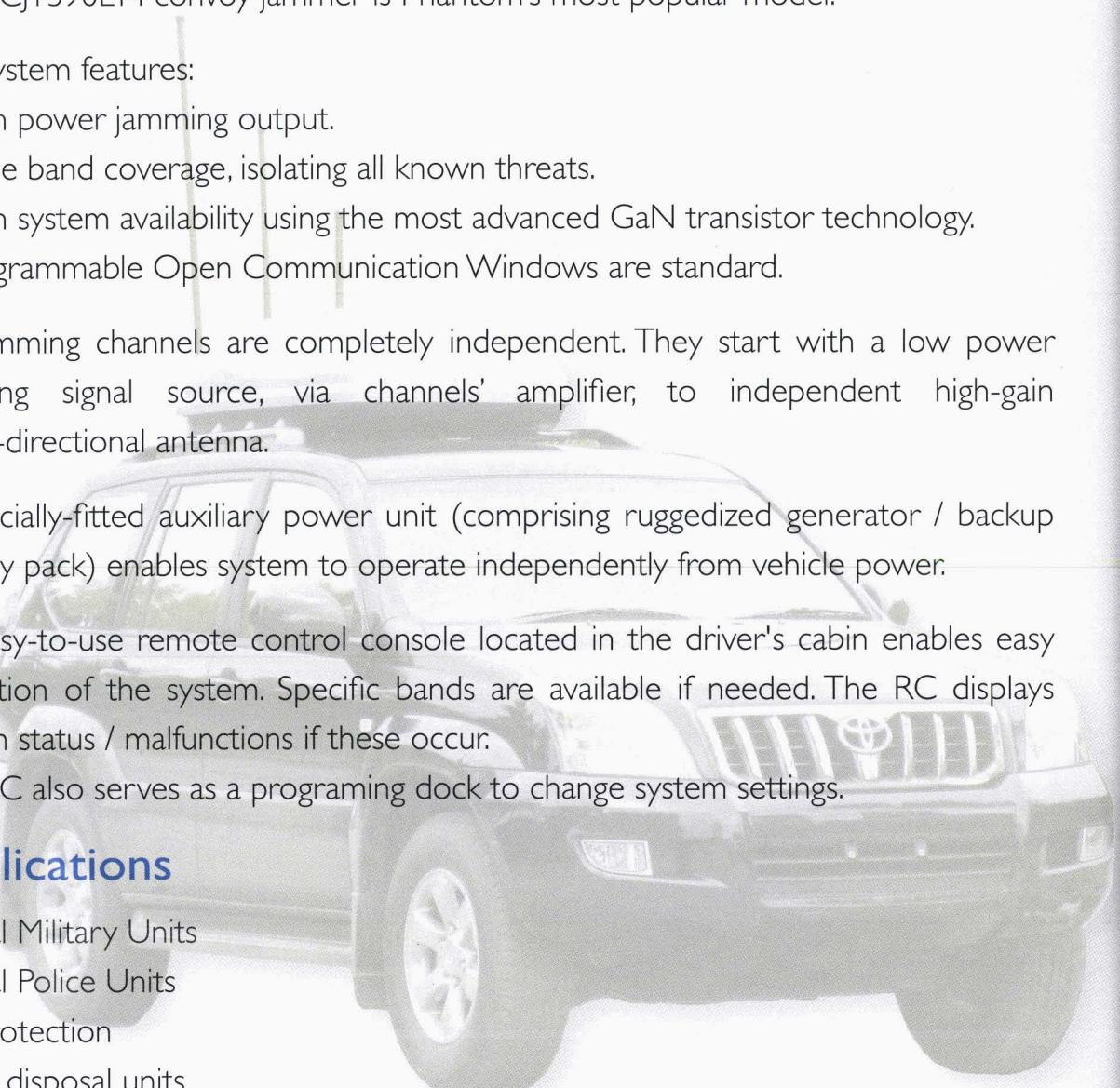
Special Military Units

Special Police Units

VIP Protection

Bomb disposal units

Convoy Protection



## Technical Specification

<b>RF Characteristics</b>	
Output Power	Up to 1,535 Watts
Range jamming	500m to 700m (At standard environment)
Internal Modulation	FM Hopping Frequency and Sweep
Signal Source	PLL Synthesized
Power Supply	220VAC / 24VDC Regulated
Sweep rate	Fixed
Current	As Per Configuration
Modules Per Unit	As Per Configuration
Remote Control	ON/OFF & MODE Via Fiber Optic
Antenna	External – Omni-Directional
Power Amplifier Protectors	Isolator. Full VSWR protector Over Heat – Thermal protector Over Current protector
<b>Jamming Frequency Range</b>	
Frequency Band	20-3500 MHz Full band jamming – No Gaps Using Multi-VCO
Air Interface Standards	2 Way Radio DTMF Cellular Pagers Etc.
<b>Physical Data</b>	
Dimensions	500 x 430 x 176 mm – 19" x 4U (10 Racks)
Weight	Approx. 140Kg
Environment of operation	
Operating Temp.	-10°C - +65°C
Humidity	5% - 80%
<b>Optional Accessories</b>	
Backup Battery	Yes
Electric Generator	01
Control Cable Via PC	RS232 – 9 pins CABLE for open window programming and output power
DC-DC Converter	12-24VDC/500W (Per Unit)

## Car Installation



# **Convoy Jammer**

## **VIP Car Protection**

### **Medium Output Power**

**RCJ1390LT-MS Jammer**  
**Total output power: 430W**



The RCJ1390LT-MS - a vehicle-mounted medium power jammer - is designed to block remote-controlled improvised explosive devices used by terrorists.

The RCJ1390LT-MS uses state-of-the-art technology for maximum performance, and jam signals transmitted to activate bombs.

The unit is controlled by Microprocessor for PLL programming. It uses unique modulation technique based on mixed signals for maximum efficiency.

Each RCJ1390LT-MS module transmits a unique noise signal to create a "firewall" between transmitter and receiver.

The jamming signal is generated by Multi-VCO chain. This results in rapid sweeping time and creates high RF density along the entire protected frequency band.

Jamming radius of RCJ1390LT-MS depends on several conditions such as:

Transmitter frequency and output power; distance from receiver and any obstacles.

System modularity allows flexible usage in different applications.

The system uses high gain Broadband Omni-Directional antennas for 360° protection.

## **Applications**

Special Military Units

Special Police Unit

VIP Protection

Bomb Disposal

Convoy Protection etc.



## Technical Specification

<b>RF Characteristics</b>	
Output Power	430 Watts
Range jamming	100m to 200m (At standard environment)
Internal Modulation	FM Hopping Frequency and Sweep
Signal Source	PLL Synthesized & DDS
Power Supply	12-28VDC – Integrated DC/DC converters 110/220VAC
Sweep rate	Fixed
Current	As Per Configuration
Modules Per Unit	11
Remote Control	ON/OFF & Power Settings for each band
Antennas	External – Omni-Directional
Power Amplifier Protectors	Over Heat – Thermal protector Over Current protector
<b>Jamming Frequency Range</b>	
Frequency Band	20-3800 MHz Using Multi-VCO
Air Interface Standards	2 Way Radio DTMF Cellular Pagers Etc.
<b>Physical Data</b>	
Dimensions	400 x 300 x 280 mm
Weight	Approx. 35Kg
Environment of operation	
Operating Temp.	-10°C - +65°C
Humidity	5% - 80%
<b>Optional Accessories</b>	
Backup Battery	Yes
Control Cable Via PC	RS232 – 9 pins CABLE for open window programming
DC-DC Converter	18-36VDC/400W (per band)



# **Portable Man-Pack for Military use**

**Man-Pack 806**

## **General Description**

The unit was designed to neutralize RF and Cellular communication during field activity by Special Units.

The MP806 uses state-of-the-art technology for maximum performance.

The unit is controlled by a Microprocessor for PLL programming.

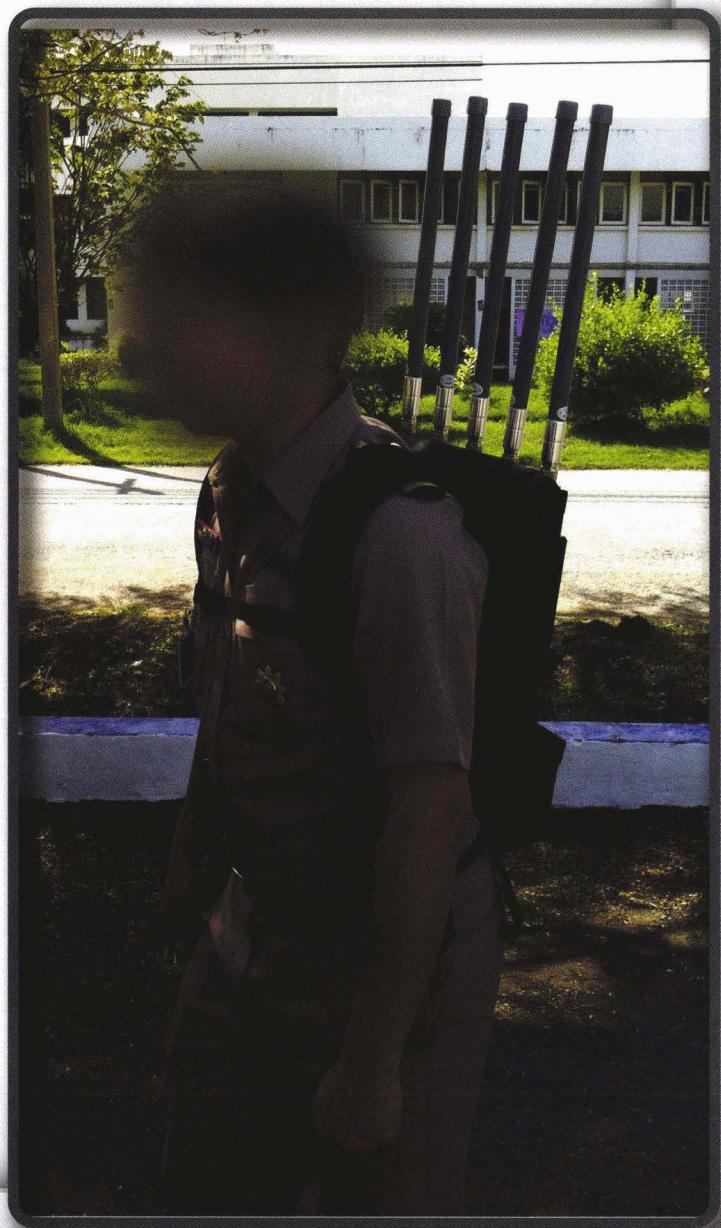
The MP806 transmits a white noise signal which disrupts RF communications at HF/VHF and UHF bands.

The unit can even protect against RCIED detonated remotely by cellular or Wi-Fi networks..

Protection jamming radius up to 50 meters.

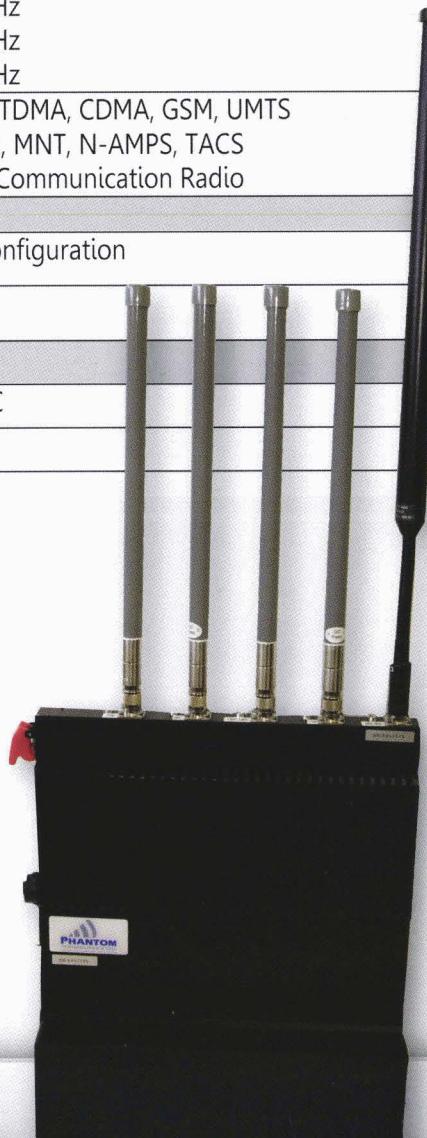
The MP806 is supplied with high-quality Lithium-Polymer Batteries and provides up to 2 hours of continuous operation. MP806 has its own special back-pack Case & Remote Control.

Optional features such as anti-radiation gaskets are also available.



## Technical Specification

<b>RF Characteristics</b>	
Output Power	105W
Internal Modulation	FM Hopping frequency
Signal Source	PLL synthesized
Power Supply	25.9VDC Li-Polymer Rechargeable Battery
Modules Per Unit	Up to 9
Remote Control	Wired
Antennas	External Omni-Directional
<b>Jamming Frequency Bands</b>	
Frequency Bands	20-500 MHz 20-80 MHz 130-180 MHz 430-470 MHz 851-960 MHz 1805-1880 MHz 2400-2483 MHz 2500-3000 MHz 3000-3500 MHz
Air Interface Standards	Digital: IDEN, TDMA, CDMA, GSM, UMTS Analog: AMPS, MNT, N-AMPS, TACS HF/VHF/UHF Communication Radio
<b>Physical Data</b>	
Dimensions	Depend on configuration
Weight	<20Kg
<b>Environment of operation</b>	
Operating Temp.	-30°C - +65°C
Humidity	95%



# RCIED JAMMER

Model MP809

## General Description

The unit was designed to neutralize RF and Cellular communication during field activity by Special Units.

The MP809 uses state-of-the-art technology for maximum performance.

The unit is controlled by a Microprocessor for PLL & DDS programming.

The MP809 transmits white noise signal which disrupts RF communications at HF/VHF and UHF bands.

The unit can even protect against RCIED detonated remotely by cellular and Wi-Fi networks.

Protection jamming radius C 50 meters.

The MP809 is supplied with high-quality Lithium-Polymer Batteries and provides 1.5 hours of continuous operation.

MP809 has its own special back-pack case and Remote Control.

Optional features such as anti-radiation gaskets are also available.

## Optional Features

1. IR remote control unit
2. Power ON-3 with adjustable time delay
3. ON/OFF sound signal
4. Thermal protection
5. Low battery indicator
6. Open communication window interface for RF bands



## Technical Specification

<b>RF Characteristics</b>	
Total Output Power	265W
Internal Modulation	FM Hopping frequency
Signal Source	PLL Synthesized & DDS
Power Supply	26VDC Li-Polymer Rechargeable Battery
Modules Per Unit	6
Remote Control	30m Wired Remote Control
Antennas	6 Omni Directional Antennas N-Type Connector
<b>Jamming Frequency Bands</b>	
Frequency Bands And RF Output Power	20-100 MHz - 80W 100-200 MHz - 30W 200-350 MHz - 30W 350-500 MHz - 30W 500-1000 MHz - 30W 1000-2500 MHz - 25W 2500-4000 MHz - 20W 4000-6000 MHz - 20W
Air Interface Standards	20 MHZ – 6 GHz Including the following: 27MHz, NMT, 433MHz, 868MHz, GSM900, GSM1800, UMTS, BLUETOOTH, THURAYA, IRIDIUM, Wi-Fi 2.4GHz Wi-Max 5.8GHz
<b>Physical Data</b>	
Dimensions	55.3 x 42.4 x 27 cm
Weight	Approx. 35Kg
	Trolley Pelican Case Model Pelican1610 IP54
<b>Environment of operation</b>	
Operating Temp.	-20°C - +70°C
Humidity	5% - 95%
<b>Additional Features</b>	
	All Jamming bands transmits simultaneously
	3 Open window per band, can be setup by user
	1.5 hours operation from internal battery between charges
	Visual and audio alarm informing about switching on/off device and audio signal if device does not work properly.
	Protection system against switching on device without antenna
	Power supply – 18-36 VDC
	External 230VAC Smart Charger
	Programming using laptop via USB/Ethernet
	Optional secured programming via Bluetooth



## **UHF Power Amplifier**

**Very High Power**

**Model PHPA-SA3  
2000W Output Power  
1000-2500MHz**

Phantom Technologies Ltd. manufactures a power amplifiers for a wide range of applications.

The Phantom PHPA series of power amplifiers offer frequency ranges from 20 MHz to 18 GHz, output power from 1W to 2KW, air or liquid cooling, and high efficiency.

Both amplifier systems and amplifier modules are offered in Narrow Band or Broadband frequencies, a range of voltages, and a variety of connectors.

The PHPA-SA3 was designed for signal amplifying in UHF band, 1,000-2,500MHz.

The PHPA-SA3 is based on GaN power transistors for maximum performance and reliability.

The unit is controlled by a Microprocessor for maximal protection against damage. High gain and small dimensions render the amplifier suitable for numerous applications.

### **System Feature**

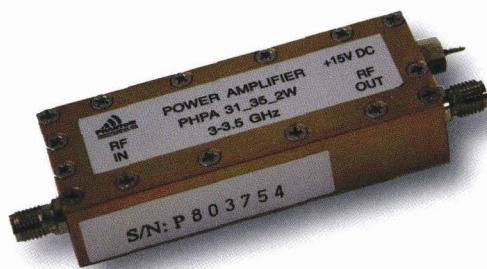
High Gain

Design for Very High Output Power

GaN Based

1,000-2,500MHz

Plug & Play



## Technical Specification

<b>RF Characteristics</b>	
Frequency Range	1,000-2,500 MHz
Input/Output Impedance	50 Ohm
Gain	60 dB +/- 1dB
Input Signal Range	-5-+3 dBm
Output Power – P1dB comp.	63 dBm
Output Power Stability	+/- 1dB
Input Return Loss	15 dB
Monitoring Signal	-60 dBc
Modulation In	AM/FM/PM
<b>Electrical Characteristics</b>	
Power Supply	110-230 VAC
Power Consumption	7,000W
<b>Physical Data</b>	
Dimensions	19" x12U
Weight	Approx. 400 Kg
<b>Environment of operation</b>	
Operating Temp.	-10°C - +65°C
Humidity	5% - 80%
Cooling	Forced Air / Liquid Cooling
Storage Temp.	-20°C - +70°C
<b>Indicators</b>	
High VSWR	2.5:1
High Plate Temp	+70°C
High Input Power	+3dBm

# Non- Linear Junction Detector

Model PHJD880

## General Description

The PHJD880 was designed to detect non-linear junctions.

Non-linear junctions include a variety of components such as diodes, transistors, IC's, etc.

The PHJD880 can detect electronic circuits such as hidden transmitters, tape recorders and cellular phones, even if a DC source does NOT apply.

The PHJD880 is a state-of-the-art Non-linear Junction Detector based on the latest technology, including DDS and DSP.

The system provides evaluation of 2<sup>nd</sup> & 3<sup>rd</sup> harmonics.

Strong 2<sup>nd</sup> harmonic return indicates electronic components, whereas strong 3<sup>rd</sup> harmonic indicates false corrosive junctions.

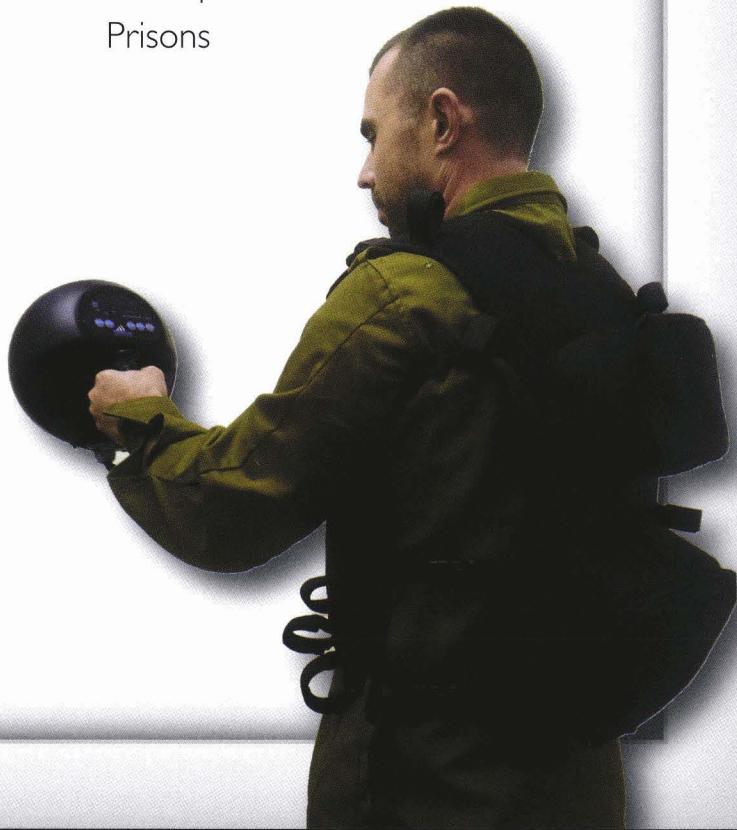
Both 2<sup>nd</sup> and 3<sup>rd</sup> harmonics are displayed simultaneously.

## Technical Advantages

- Full digital system,
- Sweeps all active or passive bugs
- Automatic or manual channel selection,
- High power transmitter (+37 dBm),
- Excellent receiver sensitivity,
- CW or Pulse mode operation

## Application

- Offices
- Courtrooms
- Headquarters
- Prisons



## *Company Profile*

Since 1996, Phantom Technologies Ltd. has specialized in developing and manufacturing special jammers for both cellular and RF communication bands.

Phantom Technologies Ltd. employs a highly skilled and qualified R&D team to engineer high end jammers, using the most advanced components available.

This team can design custom jammers for special orders.

Results always exceed customers' expectations vis-a-vis performance and reliability.

Phantom Technologies Ltd. uses state-of-the-art measuring equipment to manufacture and test all products.

100% of all finished products are tested prior to shipment, to ensure they fulfill specifications, thus guaranteeing high performance and reliability for the long term.

Phantom Technologies Ltd. is an Israeli leading manufacturer of jamming products.

We supply special equipment to the military, special police forces, prison authorities, special protection groups, elite units, VIP protection, local authorities etc. Our customers highly value the reliability and quality of our products.

Phantom Technologies Ltd. provides excellent post-sale technical support and provides a full 12-month warranty on all products.

## *Main Products*

### **Cell Phone Jammers (CCJ & SMJ Series)**

The CCJ Series was designed to block GSM cellular networks and all cellular standards worldwide.

The CCJ Series uses state-of-the-art technology for maximum performance.

The unit is controlled by a Microprocessor for PLL programming.

The CCJ device transmits a noise signal that disrupts all cellular communication between mobile phones and base stations.

The SMJ device, based on digital technology, can be programmed to jam BCCH channels only.

Based on DDS technology, the jamming distance is as much as 10 times farther than with analog technology.

SMJ Series has been designed especially for prison jamming applications.

The result is that all cellular phones near the jammers will be totally Blocked and the cell phones will be unable to receive or make calls. When CCJ or SMJ device affects the mobile phone, the display will show "NO SERVICE".

**Application:** Conference rooms, Cinemas, Prison compounds, Special police units Convoy protection, etc.

### **RF Communication Jammers (RCJ Series)**

The RCJ series state-of-the-art technology is used for maximum performance.

The unit is controlled by a Microprocessor for PLL programming.

Unique modulation technique based on mixed signal is used for maximum jamming efficiency.

Each module in the RCJ Series transmits a unique noise signal which creates a “firewall” between transmitter and receiver.

The jamming signal is generated by DDS or Multy-VCO chain. This results in rapid sweeping rate along the bands, creating high RF density for the entire length of the protected frequency band.

Jamming radius of RCJ Series depends on several conditions including: transmitter frequency; output power; distance from the receiver; and the nature of obstacles.

The system's modularity allows flexible usage under variable conditions.

The system is provided with broadband omni-directional antennas for 360 degrees protection.

### **Application**

Convoy protection, VIP protection, Special military units, Special police units, Bomb disposal squads, etc.

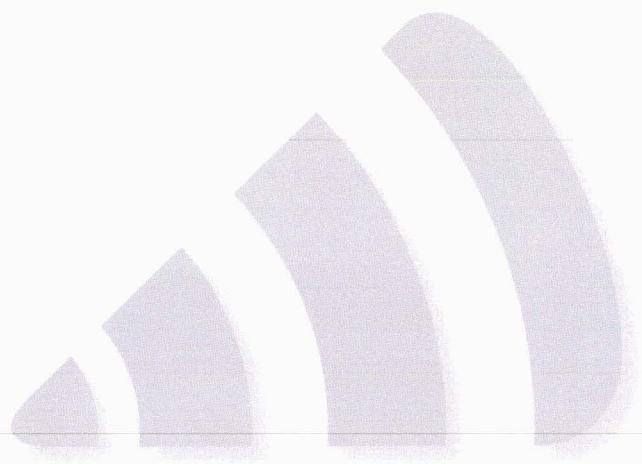
### **Power Amplifiers**

Phantom Technologies Ltd. manufactures a wide range of power amplifiers for a wide range of applications.

The Phantom PHPA series of power amplifiers offer frequency ranges from 20 MHz to 18 GHz, output power from 1W to 2KW, air or liquid cooling, and high efficiency. Both amplifier systems and amplifier modules are offered in Narrow Band or Broadband frequencies, a range of voltages and a variety of connectors.

### **Counter Surveillance Equipment**

This group of products includes a number of effective devices to provide detection and location of all major types of electronic surveillance devices - for example: room transmitters, phone transmitters, body bugs and video transmitters. This equipment is meant for professional sweep teams, government security personnel and private individuals with crucial security needs.



**PHANTOM**  
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ADVANCED JAMMING SOLUTIONS



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