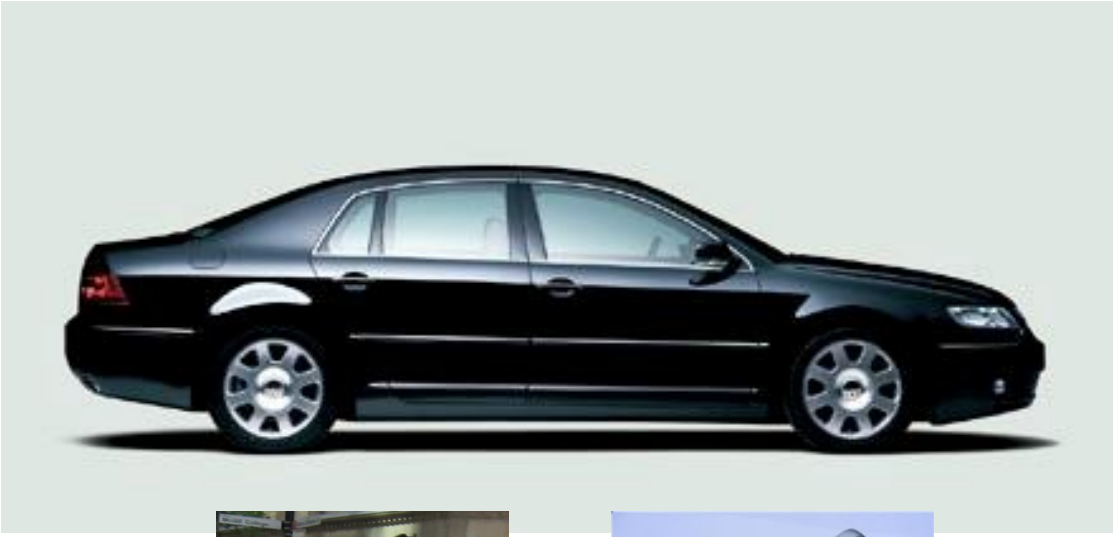
PHANTOM TECHNOLOGIES LTD.
ADVANCED JAMMING SOLUTIONS

TSecNet s.r.l.

CAR VIP PROTECTION with RCJ1390LT-MS Jammer – Medium Output Power

430 Watts Modular System



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RCJ1390LT-MS Jammer

The *RCJ1390LT-MS* is a vehicle mounted medium power jammer designed for blocking remote controlled improvised explosive devices used by terrorist.

The *RCJ1390LT-MS* is using state-of-art technology for maximum performance and jamming the signals transmits to activate bombs.

The unit controlled by Microprocessor for PLL programming and use unique modulation technique based on mixed signal for maximum jamming efficiency.

Each module of *RCJ1390LT-MS* transmits unique noise signal which create "firewall" between the transmitter and its receiver.

The jamming signal is being generated by Multi-VCO chain which results very high sweeping time along the bands hence create high RF density in each part of protected frequency band.

Jamming radius of *RCJ1390LT-MS* depends on several conditions such as transmitter frequency and output power, distance to receiver and obstacles between.

System modularity allows flexible usage in different applications.
The system use Broadband Omni-Directional antennas for 360º protection.

Applications

- **Special Military Units**
- **Special Police Units**
- **VIP Protection**
- **Bomb Disposal**
- **Convoy Protection etc.**

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System Features

There are 3 modes of operation:

1. **Sweep Mode**
   Jamming the whole frequency band at an ultra-fast Speed continuous sweeping.
2. **Spot Mode**
   Jamming 4 frequencies from list of 10 pre-programmed.
3. **Open Communication Window**
   This mode allows programming of open communication window.
   Thus frequencies can be changed easily by user in field.

- **Designed to block wireless communication including HF, VHF, UHF, SHF, Cellular Networks, Satellite Phones, GPS etc.**
- **Output power up to 80W per band**
- **Modules of Jammer operates separated;**
- **Separate switch ON/OFF and switch Operation Modes control for each frequency band.**
- **External antennas**
- **Remote control**
- **Specific signal source per band for maximum jamming efficiency**

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Technical Specifications

RF Characteristics	
Output Power	430 Watts
Range jamming	50m to 100m (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
Jamming Frequency Range	
Frequency Band	20-3800 MHz Full band jamming – No Gaps Using Multi-VCO
Air Interface Standards	2 Way Radio DTMF Cellular Pagers Etc.
Physical Data	
Dimensions	400 x 300 x 280 mm
Weight	Approx. 35Kg
Environment of operation	
Operating Temp.	-10°C - +65°C
Humidity	5% - 80%
Optional Accessories	
Backup Battery	Yes
Control Cable Via PC	RS232 – 9 pins CABLE for open window programming
DC-DC Converter	18-36VDC/400W (per band)

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Power Division

Frequency Band, MHz	Equipment In Use	Output Power Watts
20-120	Cordless Analog Phones, CB, Wireless Toys etc.	30
120-500	Cordless Analog Phones, 2 Way Communication Radio, Wireless Toys etc. VHF	50
851-894	Cellular CDMA	50
925-960	Cellular GSM	50
1805-1880	Cellular GSM	50
1930-1990	Cellular PCS	50
2110-2170	Cellular UMTS	50
500-1000	UHF, TV	25
1000-2000	GPS, Satellite Phones	25
2000-3000	WiFi, Bluetooth, MMDS etc.	25
3000-3800	WiMax, 4G	25
Total	11 Sub Bands	430

Modules Division:

- **Module 1: 20 MHz – 120 MHz;**
- **Module 2: 120 MHz – 500 MHz;**
- **Module 3: 500 MHz - 1000 MHz;**
- **Module 4: 1000 MHz - 2000 MHz;**
- **Module 5: 2000 MHz - 3000 MHz;**
- **Module 6: 3000 MHz - 3800 MHz;**
- **Module 7: 851 MHz – 894 MHz;**
- **Module 8: 925 MHz - 960 MHz;**
- **Module 9: 1805 MHz - 1880MHz;**
- **Module 10: 1930 MHz - 1990 MHz;**
- **Module11: 2110 MHz - 2170 MHz;**

Optional Spare Parts:

- **01 Backup Battery;**
- **Omni Directional Antennas;**
- **Cables with length 04 meters Extend to Install Antennas;**
- **01 Units Remote Control – Switch ON/OFF and Switch Operation modes;**

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