



PHANTOM TECHNOLOGIES LTD.

68 AMAL ST., PETAH-TIKVA, ISRAEL

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Web-Site: www.phantom.co.il

RCJ1390LT-VP Jammer:

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

The **RCJ1390LT-VP** 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-VP** 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-VP** 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 360° protection.

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

Allows open communication from 6 pre-programmed options.
Thus frequencies can be changed in factory when customer needs.

- 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

Applications

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

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Technical Specifications

RF Characteristics	
Output Power	Up to 700 Watts
Range jamming	100m to 200m (At standard environment)
Internal Modulation	FM Hopping Frequency and Sweep
Signal Source	PLL Synthesized
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 per band
Antennas	External – Omni-Directional
Power Amplifier Protectors	Over Heat – Thermal protector Over Current protector
Jamming Frequency Range	
Frequency Band	20-3000 MHz Full band jamming – No Gaps Using Multi-VCO
Air Interface Standards	2 Way Radio DTMF Cellular Pagers Etc.
Physical Data	
Dimensions	500 x 430 x 352 mm – 19” x 8U (1 Rack)
Weight	Approx. 55Kg
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.	100
120-200	Cordless Analog Phones, 2 Way Communication Radio, Wireless Toys etc. VHF	100
200-500	UHF, 2 Way Communication Radio, Wireless Toys etc.	100
851-894	Cellular CDMA	60
925-960	Cellular GSM	60
1805-1880	Cellular GSM	60
1930-1990	Cellular PCS	60
2110-2170	Cellular UMTS	60
500-1000	UHF, TV	50
1000-2000	GPS, Satellite Phones	25
2000-3000	WiFi, Bluetooth, MMDS etc.	25
Total	11 Sub Bands	700

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Modules Division:

- **Module 1:** 20 MHz – 120 MHz
- **Module 2:** 120 MHz – 200 MHz
- **Module 3:** 200 MHz – 500 MHz;
- **Module 4:** 500 MHz - 1000 MHz;
- **Module 5:** 1000 MHz - 2000 MHz;
- **Module 6:** 2000 MHz - 3000 MHz;
- **Module 7:** 851 MHz – 894 MHz;
- **Module 8:** 925 MHz - 960 MHz;
- **Module 9:** 1805 MHz - 1880MHz;
- **Module10:** 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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