

Introduction

Spot-Barrage RCIED Jammer is a transportable RF Jammer that uses digital interference based on frequency synthesizer to defeat the remote controlled improvised explosive devices or an RCIED. RF Jamming of VHF, UHF frequencies enable it reduce the risk of remote controlled improvised explosive devices from triggering. The power output of the RCIED Jammer can be increased from 50W to 500W, offering increased saturation of the electromagnetic spectrum.



The product is supplied in a rugged field transportable carrying cases, enabling it to function during transit inside of a vehicle, outside of a vehicle, or on fixed platform.

With foolproof installation and trouble free operation, it offers rapid field deployment on both mobile and fixed platforms to defend the users in hostile and uncertain environments

The jamming System consists of following components:

- ✓ Interference Generator
- ✓ Amplifiers
- ✓ PC with Dedicated Software for Jamming Transmitter Control.
- ✓ Transmitting Antenna Systems

Features:

- ✓ Operates on 20-3000MHz-frequency band.
- ✓ Variable power out put options.
- ✓ Flexibility to select interference spectrum band from 25KHz to a barrage signal in the range 100...3000MHZ with a resolution of 100KHz.
- ✓ Digital formation of interference signal spectrum that provides “intellectual” jamming
- ✓ Simultaneous generation up to 4 interference signals.
- ✓ Takes less than 100ms to generate the interference signal.
- ✓ Control /configuration through PC.
- ✓ BITE supported.

Technical Specifications

- Frequency Range 20 - 3000 MHz range, divided into sub-bands, MHz:
 - 1 sub-band - 20-500 MHz
 - 2 sub-band - 500-3000 MHz
- The output power of every transmitter with rated supply voltage, Watt
 - 1 sub-band - (20-500 MHz) - Up to 50/200/500W
 - 2 sub-band - (500-3000 MHz) - Up to 50/200W
- Barrage Jamming Bandwidth - Interference spectrum band can be set by operator at a rate of 25KHz to a barrage signal in the range of 100...3000MHz with a resolution of 100KHz
- Jamming Method - Interference generator frequency synthesizer variation setup (not more that 20KHz)
- Maximum Continuous Operation - 24X7 if AC source is available
Or
Depends on the power output of the jammer and capacity of the battery used
- Frequency Change Time - Time to generates an interference signal from the moment of receiving a control command is <100ms
- Programmable Channels - Simultaneous generation up to 4 interference signals]
- MTBF -20,000 Hrs
- Harmonic Attenuation - >40dB
- Operating Temperature - -10° C to +55° C
- Remote Control - From PC
- Built-in-Test - Yes
- MIL-Specifications - Yes
- Weight - Not more than 70Kg
- Power Supply - 24V DC

Remote Control

Dedicated Software for Jamming Transmitter PC Control:
The jammer will be controlled from a controlled laptop with special software.



Operator console to manage jamming

Power Amplifiers



500-1000W



2 x 200W



50W

Antenna

Jamming system with wide band directional transmitting antenna.



Wide band Non-directional transmitting antenna.