OPKAR-G2
MANPACK REACTIVE RCIED JAMMING SYSTEM
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OPKAR-G2, Manpack RCIED Reactive Jammer System, is designed as the result of extensive Counter-IED know-how and expertise.

OPKAR-G2 protects against Radio Controlled Improvised Explosive Devices (RCIEDs) not to be triggered by utilizing reactive jamming technique. The manpack designed system is operated to protect ground troops in the field.

OPKAR-G2 surveys the frequency spectrum to detect temporary active threat signals by utilizing the optimized algorithm and immediately emits jamming signal to prevent triggering. Therefore, OPKAR-G2 protection field is far greater than any other active jammer system with similar RF output power. Similar active jammer system is not able to achieve OPKAR-G2 protection field unless the RF output power would be multiplied by 1000.

System is capable of being easily operated in harsh field conditions by means of the compact design. Before and on duty system statuses can be seen in the Built-In Test (BIT) results. User friendly Remote Control Unit (RCU) provides ease of controlling the system to the operator. Long operation duration in field could be achieved with high capacity Li-Ion batteries. Operation with multiple OPKAR-G2 reactive jammer systems together at the same mission is possible without affecting (triggering) each other by means of GPS disciplined atomic clock synchronization.

The key technologies in system design, wide-band tuner, receiver with high process/sampling rate, DDS based FPGA controlled high signal generator, highly efficient power amplifier with high switching speed and wide band whip jamming antenna compatible to harsh field conditions.

Technical Specs

- Application Type
  - Patrol protection
  - Vehicle protection
  - Checkpoint/Facility protection
- Frequency Band: V/UHF
- RF Output Power: < 35 W
- Jamming Type: Reactive
- Antenna Type: Omnidirectional
- Power Supply: Re-chargable Li-Ion Batteries
- Weight: < 17 Kg
- Operation Duration: > 2 hours
- Operating Temp: -30°C / +50°C
- Storage Temp: -40°C / +60°C
- Environmental Cond.: Compatible with MIL-STD-810 (Rain, Icing, Low Pressure, Humidity, Sand/Dust, Shock/Vibration)