

ILGAR | 3-LT/NG

MOBILE ELECTRONIC ATTACK SYSTEM

#ElectronicWarfare



EFFECTIVE ELECTRONIC ATTACK (EA) IN V/UHF AND SHF (PARTIAL) FREQUENCY BAND
REACTIVE JAMMING CAPABILITY AGAINST FREQUENCY HOPPING SIGNALS
PROTECTION OF ALLIED COMMUNICATION
ELECTRONIC SUPPORT TO IMPROVE JAMMING PERFORMANCE
MISSION PLANNING SOFTWARE TO SUPPORT SYSTEM EFFECTIVENESS
ELECTRONIC ATTACK CAPABILITY ON MOVING (TACTICAL WHEELED ARMoured VEHICLE)
SIGNAL DIRECTION FINDING (DF) AND LOCATION FIXING CAPABILITY
HIGH POWER AMPLIFIERS WITH HIGH EFFICIENCY



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ILGAR 3-LT/NG Mobile V/UHF Electronic Attack System is developed to provide electronic attack against target V/UHF and SHF (partial) communication systems on various platforms. With this system, target communication systems are blocked, delayed or deceived, providing advantage to allied forces on the tactical field.

The system has a power amplifier subsystem which provides high power RF output on wide frequency band. Moreover, owing to a wide band receiver unit, the system gains reactive jamming capability. Thus, it can apply effective jamming against the target frequency hopping signals in the field.

The system has basic Electronic Support (ES) capability to support electronic attack operations by using high-sensitive receivers to search, detect and record the target signals. The system is also equipped with direction finding (DF) capability to detect target signals' directions. Mission Planning Software (MPS) with the RF propagation analysis capabilities is used for calculation of optimum system location and jamming power. Moreover, ILGAR 3-LT/NG System is also enhanced with the capability of Electronic Attack (EA) while on the move with Tactical Wheeled Armored Vehicle (TWAV).

ILGAR 3-LT/NG Mobile V/UHF Electronic Attack System is divided into two vehicles with lower and upper frequency bands. There are two platform options, as 6x6 tactical armored vehicle and 8x8 tactical wheeled armored combat vehicle. The system shelter, the climate control units, antennas and primary power generator have been ergonomically integrated onto the 6x6 tactical armored vehicle. ILGAR 3-LT/NG System has high mobility in the tactical field owing the ability to carry all system components on the vehicle platform. The system has capability to change its position rapidly after the jamming mission.

Software Specifications

- User Friendly GUI
- Efficient Mission Planning Software
 - Ability to analyze the RF propagation on a real terrain
 - Ability to Calculate the Jamming Effectiveness to Find the Optimum Jammer Location and Jammer Power.
- Offline Signal Analysis
- Target & Jamming Library

General Information

- V/UHF and SHF (Partial) Frequency Band Coverage
- Analog/Digital Jamming Signal
- Different Types/Modes of Electronic Attack
- Wide Barrage Jamming Bandwidth (Adjustable)
- Effective Jamming Against FHSS (Frequency-Hopping Spread Spectrum) Signals
- Effective Jamming Against DSSS (Direct Sequence Spread Spectrum) Signals
- Effective Jamming Against GNSS Signals and Satellite Hand Terminals
- Anti-Jam GNSS Receiver Infrastructure
- Signal Direction Finding (DF), Location Fixing (with More than One System)
- Electronic Attack Capability on Moving (TWAV)
- Voice/ IF Recording
- Signal Protocol Analysis
- Speech/Speaker Recognition and Automatic Translation
- Protection of Allied Communication via Protected Frequencies/ Frequency Bands
- Communication over Software-Defined Digital Radio Infrastructure
- Suitable Communication Infrastructure for Remote Control
- Coordinated Operation with Command Control Center
- Automatic Antenna Leveraging/Orientation Adjusting Infrastructure
- UPS Infrastructure
- Dual Power Generator
- Advanced Built-in Test Capability
- Single Operator Usage
- High Mobility in Tactical Field
- Quick Setup/Tear Down
- Military Standards (MIL-STD-810F and MIL-STD 461/464)

Technical Specifications

- Frequency Band : V/UHF and SHF (Partial)
- RF Output Power : Customer-specific solutions could be offered.
- Jamming Types : Continuous, Look-Through, Target-Triggered
- Jamming Modes : Spot, Sequential, Multiple, Barrage, Reactive
- Deception Capability : Analog/Digital Deception Sources
- Demodulation : FM, AM, LSB, USB, CW
- Recording Modes : Voice and IF Signal Recording Modes
- Power (Generator) : 230/400 VAC \pm 10%, 47-53 Hz
- Operation Temperature : -30° / +50°C, 0°/+50°C
- Storage Temperature : -40° / +60°C
- Humidity : 90% (Non-Condensing)

