MİLKAR-3A2
V/UHF JAMMING SYSTEM

EFFECTIVE ELECTRONIC ATTACK (EA) IN V/UHF FREQUENCY BAND
PROVEN SYSTEM IN REAL COMBAT BATTLEFIELD
ELECTRONIC SUPPORT TO IMPROVE JAMMING PERFORMANCE
MISSION PLANNING SOFTWARE TO SUPPORT SYSTEM EFFECTIVENESS
MAXIMUM PERFORMANCE IN HARSH BATTLEFIELD CONDITIONS
V/UHF JAMMING SYSTEM

The System has a power amplifier subsystem which provides high power RF output on wide frequency band. Moreover, it uses its own exciter infrastructure with very high exciter tuning/sweep speed and a wide band receiver unit with wide instantaneous bandwidth. Owing to these technologies, the System gained reactive jamming capability. Thus, it can apply effective jamming against the target frequency hopping signals in the field.

The System is divided into two vehicles with lower and upper frequency bands. According to customer needs and vehicle selection, it is possible to offer one vehicle-solution. All equipments including power generator, air conditioner are integrated on a high-mobile shelterized 4x4 vehicle platform. The System has a capability to change its position in a few minutes after finishing the operation. Moreover, the System could function independently of the platform. According to the customer’s needs, the System could be integrated on different platforms.

Critical Technologies

- Reactive jamming capability against frequency hopping signals
- High power and efficient amplifiers
- Narrowband/wideband receiver capabilities (Scan/Detection/Demod)
- High exciter tuning speed (<100 ns)
- Orientable directional jamming/ monitoring antennas with high gains

Technical Specifications

- Frequency Range : V/UHF (Customer specific solutions could be offered, HF and SHF bands could be added.)
- Output RF Power : Customer specific solutions could be offered.
- Jamming Types initiated : Continuous, Look-through, Signal-
- Jamming Modes : Spot, Sequential, Multiple, Barrage, Reactive
- Jamming Source : Tone, Multi-tone, Triangle, Ramp, Noise, Audio Record.
- Deception Capability : Analog deception sources (Microphone, audio record, IF record), Digital deception sources (Determined bit sequences, IF record)
- Demodulation Capability : FM, AM, LSB, USB, CW
- Recording Modes : Audio and IF Signal Record Modes
- Power Generator : 220/380 ±10 VAC, 50±3 Hz, 3 Phase
- Operating Temperature Range : -30° / +50°C, 0 °/+50°C (indoor units)
- Storage Temperature Range : -40° / +60°C
- Humidity : 95% (non-condensing)

Main Features

- V/UHF Frequency band coverage
- Analog/Digital jamming signals
- Different types/modes of Electronic Attack
- Wide barrage jamming bandwidth (Adjustable)
- Effective against FHSS (Frequency Hopping Spread Spectrum) signals
- Effective against DSSS (Direct Sequence Spread Spectrum) signals
- Effective against GPS and Satellite signals
- Audio/IF recording capability
- Blocked frequencies/ frequency bands to protect allied frequencies/frequency bands
- Software-based digital radio
- Suitable for Remote Control Infrastructure
- Coordinated operation with command control center
- Automatic antenna mast
- Automatic antenna orientation and polarization adjustment
- Advanced BIT (Built-in-Test) capability
- Single operator usage, quick set up & tear down, high mobility on rough terrain

Software

- User friendly Graphical User Interface (GUI)
- Efficient Mission Planning Tool
- 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 Tool
- Target and Jamming Techniques Libraries