GERGEDAN™ IHA
ANTI-DRONE & RCIED JAMMER SYSTEM
**ANTI-DRONE & RCIED JAMMER SYSTEM**

**Drone/Mini-UAV Threat**
Drones/Mini-Unmanned Aerial Vehicles (Mini-UAVs) can be classified as Rotary Wing (Multicopter/Multirotor, Helicopter, Quadrocopter, Hexacopter) and Fixed Wing (Plane, Glider).

Drones/Mini-UAVs are used for purposes such as Reconnaissance (Spying and Eavesdropping on Facilities), Disturbance and Attack (with weapons or IEDs).

Being used more and more widespread in symmetrical and asymmetrical warfare, Drones/Mini-UAVs have appeared to be a global threat in recent years. The degree of threat is increasing every day, because Drones/Mini-UAVs are cheap and available on the market, easy to be manufactured, modified and customized for special purpose whereas it is difficult to notice, identify and locate them during an attack. Even if located, it is another serious problem to shoot them down due to their shrinking sizes.

**GERGEDAN™ Anti-Drone & RCIED Jammer System**
GERGEDAN™ Anti-Drone & RCIED Jammer System is designed to provide protection against drone/mini-UAV attacks by jamming the Remote Control Frequencies, GPS/GLONASS Satellites Navigation Frequencies, Data Link Frequencies, Image Forwarding Frequencies and RCIED Triggering Frequencies (if any) of Drone/Mini-UAVs simultaneously. GERGEDAN™ also provides protection against RCIEDs and is used to protect convoys, VIP vehicles in motion.

GERGEDAN™ covers the whole RF band and creates protection against all known drone/mini-UAV attacks with its specially designed antenna patterns creating semi-spherical protection umbrella as well as ground threats such as road-side RCIEDs.

GERGEDAN™ uses omni-directional antennas to create 360° protection to defeat fleet attacks (multiple drones/mini-UAVs approaching from different directions). Optionally, when required by the customer, the system can be configured to use directional antennas to cover specific segments.

For static infrastructure installation, GERGEDAN™ antenna platform can be used with an elevated mast. For mobile use, the system can also be integrated on vehicles. This provides the customer with facility protection against drone/mini-UAV attacks and convoy protection against RCIED attacks with a single jammer.

The system can be powered from the additional vehicle alternator or the mains (220VAC) for continuous use or by batteries for limited operation time.

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**Technical Specifications**

**Application Type**
- Protection of military bases, facilities, high value assets, ceremony, meeting, demonstration areas and checkpoints against drone/mini-UAV attacks
- Convoy Protection against RCIEDs

**Software Defined (Programmable) Jammer (Configurable according to Operational and Tactical Requirements)**
- Fully Programmable State-of-Art Digital Frequency
- Programming of more than 100 different jamming profiles
- Dynamic Communication Channels

**Jamming Type**
- DDS Based FPGA Controlled Swept Jamming

**Frequency Coverage**
- Whole RF Spectrum (Configured according to Customer Specific Requirements)

**RF Output Power**
- < 650 Watt

**Antenna Type**
- Omni-Directional Antennas
- High-Gain Directional Antennas (Optional)

**Power Source & Operation Time**
- Additional Vehicle Alternator for continuous operation
- Mains (220VAC) for continuous use
- Batteries for at least 1 hour

**Weight**
- < 65 kg (RF Jammer Unit)

**Electric Field (SAR)**
- Compatible with ICNIRP standards (Human Safe)

**Operating Temperature**
- -30 °C ; +50 °C

**Storage Temperature**
- -40 °C ; +60 °C

**Other Environmental**
- Rugged Design, Compatible with MIL-STD-810 Conditions (Humidity, Rain, Dust, Shock, Vibration)