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aselsan GERGEDAN Portable RCIED Jammer System

GERGEDAN™

ANTI-DRONE JAMMER SYSTEM

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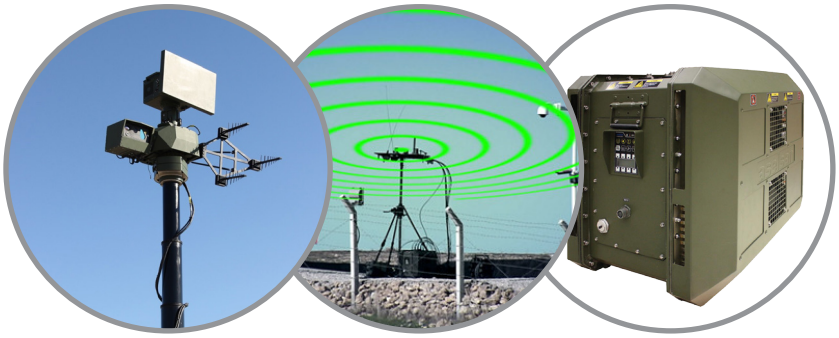

GERGEDAN™

ANTI-DRONE 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 the 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 System
GERGEDAN™ Anti-Drone System is designed to protect military bases, facilities, high value assets, ceremony, meeting, demonstration areas and checkpoints against drone/mini-UAV attacks by jamming the Remote Control Frequencies, GNSS Frequencies, Data Link Frequencies, Image Forwarding Frequencies.

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.

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.

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

Technical Specifications

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

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

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
- 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)

P: +90 (312) 592 10 00 | **F**: +90 (312) 354 13 02 | rehismarketing@aselsan.com.tr