



COUNTER UAV SYSTEM

#C4I



ASELSAN's Anti-Drone System iHTAR 100, aims to neutralize mini and micro UAV threats in urban and rural environments. It is used for protection of critical facilities, prevention of illegal border infiltration and safety of highly populated events which compatible with all vehicle/platform and stationary design solutions. Multiple anti-drone systems can work jointly in order to provide air defense.



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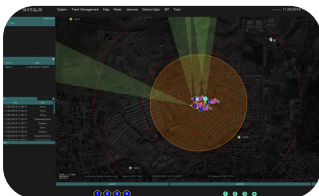
COUNTER UAV SYSTEM

General Specs

- Detecting and tracking multiple UAVs with high accuracy using portable radar
- Low false alarm rate
- Recognizing the threats from a distance using TV/Thermal cameras
- Automatic video tracking
- Directional jamming capability for specific threats
- Omni directional jamming capability for swarm attacks
- Ability to switch to preloaded jamming frequency groups
- Software programmable jamming frequencies
- Requires minimum operator intervention
- Built-in-Test (BIT) capabilities
- Operating in all-weather conditions for 7/24
- Customizable with its open and modular architecture
- Compatible with military standards
- Easy to include other means of sensors (acoustic drone detection subsystem, direction finding (DF) subsystem etc. through open and modular architecture feature)
- Within counter measure, easy to integration with GÖKBERK Laser Defense System, notably ŞAHİN 40 mm UAV hard kill system and different caliber weapon systems
- Compatible with web based software
- Dynamic spoofing
- Compatible with all vehicle/platform and stationary design solutions

Command and Control System

- Centralized Command & Control capabilities with integrated GIS, alarm zones, filtering etc.
- Air picture generation
- Decision support algorithms
- Sensor fusion and auto-tracking
- Threat evaluation and effector allocation algorithms
- Centralized command & control of all sensors and effectors
- Integration of new sensors and systems (Acoustic Drone Detection Subsystem, Direction Finding (DF) Subsystem etc.) with open architecture feature
- Automatic UAV identification via thermal and daytime cameras



Radar System

- Ku-band pulsed doppler radar with pulse compression
- Track-While-Scan (TWS) mode
- Multi-target tracking, automatic target tracking
- 360° continuous or sector scanning
- 30 rpm rotation speed
- Automatic target classification
- 40° instantaneous elevation coverage adjustable sector width



RF Countermeasure System

- Programmable RF Jammer System
- Active jamming of RFEYP trigger frequencies of radios, remote controls, mobile phones (2G, 3G, 4.5G/LTE, WI-FI) and GNSS, remote control, data/image/video transmission frequencies of Drones/Mini-Micro-UAVs in the entire radio frequency band
- Protection against swarm threats with codirectional antenna set
- Type of antennas: with directional/codirectional antenna, antennas hidden inside the roof rack.



Electro-Optic Systems

- The third-generation thermal imaging system developed for long distance surveillance and reconnaissance, can perform many tasks such as border surveillance, tactical reconnaissance, coast guard, facility security, long distance surveillance under all weather conditions day and night.
- Family of high-definition daytime cameras; used for long-range surveillance and reconnaissance, fixed and mobile security applications, situational awareness, air defense applications and security units.

