



DRONEBlocker

0100 | 0200



Strong ally of security forces by blocking unauthorized drones

Radio-controlled drones are a threat to security forces around the world as they can fly or hover over airports, stadiums, prisons and places of great concentration of people for unauthorized recording and transmission of videos, transport of explosives and illegal goods, terrorist attacks and other threats.

To combat this type of threat, IACIT proposes the DRONEBlocker solution, which is able to block the Drones/SARP from long distances.

This system allows integration with various sensors, such as cameras, radars, RF and acoustic sensors. Being portable, its antennas can be installed on top of structures or on poles for special missions or large events.

IACIT has the complete solution against drone attacks, being the DRONEBlocker 0100 for military applications and the DRONEBlocker 0200 for civil applications. Both manage to block the invasion of several drones at the same time, known as "Drone Swarm".

Main applications

- Airports,
- Prisons and detention centers,
- Government and military establishments,
- Critical Infrastructures,
- Gas and oil refineries,
- Border control,
- Antiterrorist units,
- Bomb squads,
- Convoy protection,
- Military forces and bases/camps,
- Police forces.



DRONEBlocker | Countermeasure system

SCE 0100 X SCE 0200		
Model	DRONEBlocker 0100 (militar use)	DRONEBlocker 0200 (civil use)
Use	Militar	Civil
Maximum power	2 channels of 10W 2 channels of 50W 2 channels of 100W	10W per channel
Channels	up to 6 channels	3 channels (typically)

Integrated Sensors - DRONEBlocker solution was developed so that, through the C2I System, you can make your integration more flexible with several Sensors available on the market.

Acoustic Sensor: detection and classification

The acoustic sensor detects the target through a high-precision microphone, processes the signal and performs a comparison with the database, looking for a signature equivalent to the noise generated by the Drone. If there is a match, it sends a message/trigger to the jammer subsystem in order to activate it.

Radar: detection and classification

The radar detects and tracks air and ground targets with low RCS. Through this cutting-edge technology, the system provides the ability to meet the challenge of efficient detection of miniature Drones, characterized by a small RCS.

Whenever the radar detects a target, it sends a message/trigger to the Jammer subsystem in order to activate it.

The radar has a long range and is extremely light.

Surveillance Camera: detection and classification

IACIT has developed an image-processing algorithm, capable of detecting targets (Drones) through the videos of the surveillance cameras installed along the perimeter. The camera subsystem detects the target and sends a message/trigger to the jammer subsystem in order to activate it.

RF Sensor: detection and classification and identification

The RF Receiver sensor detects targets by receiving the signals exchanged between the Drone and its Operator.

The receiver is processing and comparing the received RF signals with a database, searching for a signature (protocol) equivalent to the signal generated by the Drone and/or Operator.

If there is a match, a trigger is sent to the jammer subsystem in order to activate it.

C2I System - integrated with DRONEBlocker and Sensors

IACIT has developed a System C2I platform, an advanced system that integrates data from different types of sensors and provides a real-time, georeferenced picture of situational awareness of the scenario.

The C2I is capable of working in multilayers, facilitating the operation and visualization of the operator at the highest level, with simulation tools, area coverage verification, in addition to issuing alerts for the occurrence of events.

The C2I System allows automatic monitoring of the perimeter with the generation of event logs, for tracking and storage events.

The systems can be operated in a network with several sensors and blockers through an ethernet cable, fiber or wireless network (special frequency), all controlled by a central control unit (C2I).



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