



HAWK HACKING MODULE

Urban and sensitive environments require safe and effective anti-drone defense. An effective system must meet the high requirements of „dense“ spatial development, deal with difficulties, avoid potential damage and extreme interference of civil communication signals.

Challenges of the urban and sensitive environment:

- **Signals** are subjected to interference from tall buildings and other urban elements, which may lower or unable to distinguish “friendly” drones versus „foe” drones.
- **Optical systems** have limited Line-of-Sight and are sensitive to weather conditions, especially those that impair visibility.
- **RF and GPS jamming systems** can cause serious communication interference and damage to peripheral devices, for example by disabling GPS navigation, control systems, disrupting Wi-Fi and cellular networks.

HAWK Hacking Module – The Best Solution Designed for Urban and Sensitive Environments.

It is an advanced system that automatically and passively detects, locates and identifies “foe” drones. Thanks to an effective hacking system, it takes control over „foe” drones and enables them to land safely at a predefined safe zone. HAWK Hacking Module is a solution that employs a non-jamming, non-kinetic technology, independent of the line-of-sight, leading the captured drone through the designated route towards the selected point.

The system comes in a wide range of deployment configurations. It is designed to provide complete operational flexibility and provide end-to-end counter-drone capabilities in any scenario: in a dense urban, industrial or open terrain environment. Hawk Hacking Module is a non-jamming solution.

The system transmits a precise and short signal that takes control over “foe” drone without interfering with other drones and communication signals.

The Hacking Module gives the ability to take control over a swarm of drones, from a few to dozen of drones at the same time.

OPERATING PRINCIPLE

The HAWK Hacking Module passively and continuously scans and detects unique communication signals used by commercial drones. Once detected, the HAWK Hacking Module extracts the drone identifiers for Identification Friend or Foe (IFF) and decodes the telemetry signal. The system determines not only the current position of the drone, but also

its take-off position and indicates the current location of the pilot.

As a result of taking control over the „foe” drone, the drone operator loses all control of the drone. It ceases to receive telemetry information and video without possibility to regain control over the drone.

ADDITIONAL BENEFITS OF THE SYSTEM:

Advanced Proprietary Protocols

- frequencies used by the most advanced long-range and commercial drones
- support for proprietary radio (DIY) protocols
- active reprogramming of drones, directing them to fly a new route and forcing them to land in a controlled and safe manner.

High Performance

- ability to handle multiple drones simultaneously
- 360 ° perimeter security with a radius of up to 3 km (1.8 miles), using omni antennas
- support for both manual and pre-configured autopilot flight modes

Easy deployment and Operation

- autonomous
- configurable mitigation methods, fend-off or takeover control & land
- stationary and mobile deployments operations with quick and easy setup
- low power and small footprint

Future Ready

- designed to handle all standard and proprietary radio technologies used by commercial drones
- continuous software updates. Quick adaptation of the system to new drone models and DIY radio components

