A system to counteract drones at facilities of any size

Kaspersky Antidrone: Protecting airspace from drones

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Kaspersky Antidrone

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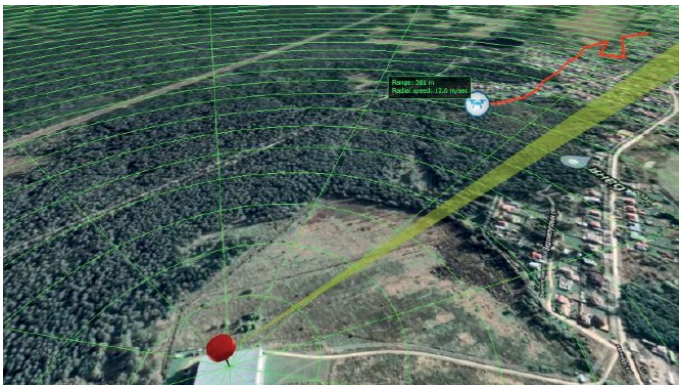
Protecting airspace from drones

The stand-alone Kaspersky Antidrone solution uses a neural network to instantly detect and classify drones in automatic mode. Data on the drone model, remote control console, and the location of the drone pilot is displayed in real time.

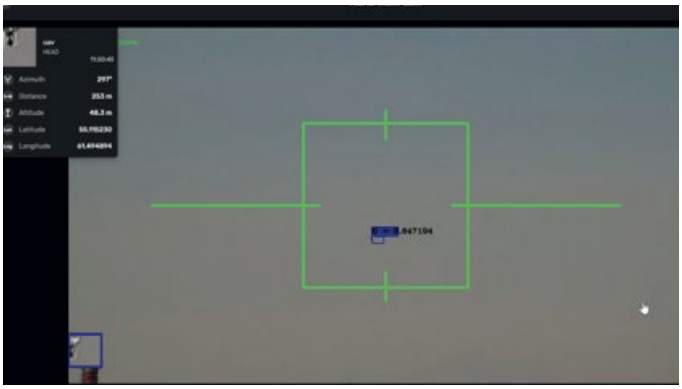
Sensors, selected specifically for each site in combination with AI-based technology, signal that a drone is approaching the controlled zone and pursue the target.



Detecting objects such as drones, birds and planes takes **just 0.05 seconds.**

Detection

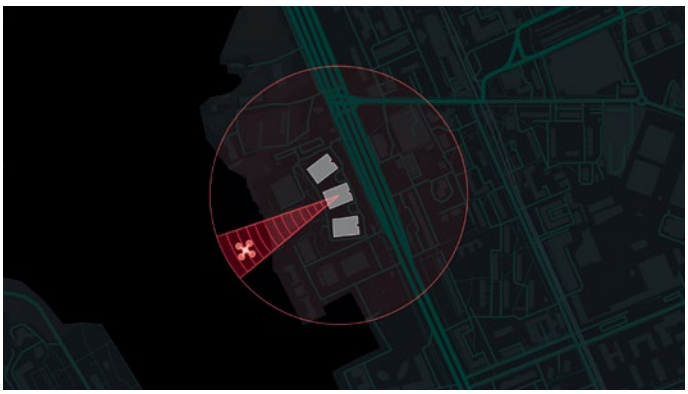
Initial detection of objects in the air is performed using a variety of audio and video sensors, as well as laser scanning and analysis of radio frequencies, combining the strengths of the equipment and ensuring round-the-clock operation of the system in various weather conditions.



Range, altitude, speed and drone model are determined with an average **classification accuracy of 97%.**

Classification

Kaspersky Antidrone uses machine learning and neural networks to classify detected targets, determining the type and model of a drone in less than one second. Data is displayed on the user interface, where the system signals any unauthorized flights and offers a choice of countermeasures based on an assessment of the characteristics and potential threat of each target.



Instant notification in the event of an incident and **neutralization with a single click.**

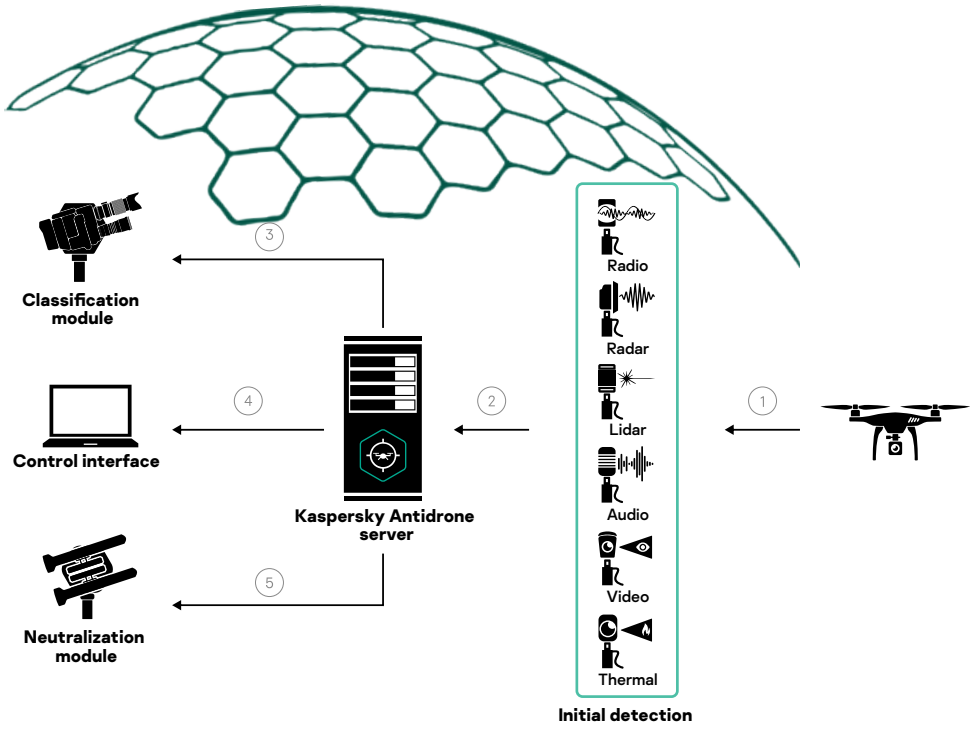
Neutralization

Kaspersky Antidrone uses several complementary methods to combat UAVs. The system relays a control signal to the hardware neutralization module when a threat arises, and displays the situation in real time in the graphical user interface.

The Kaspersky Antidrone ecosystem

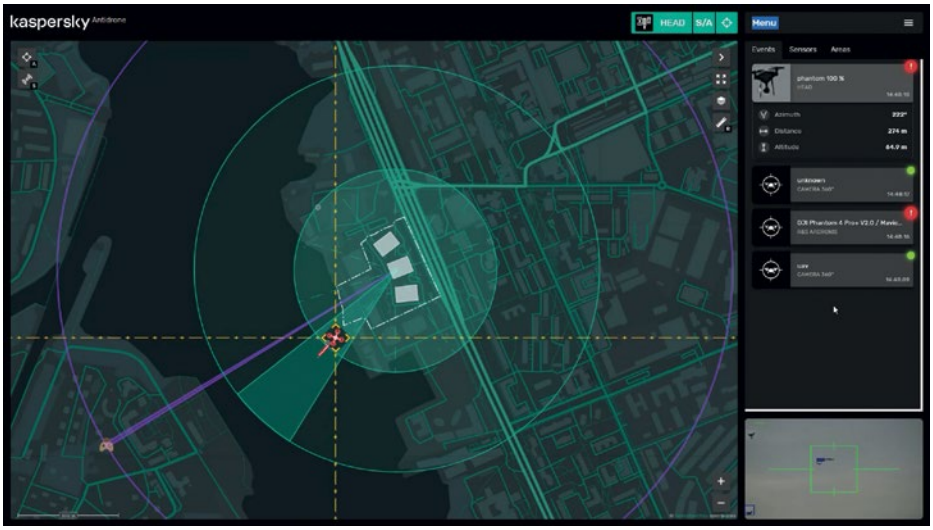
Kaspersky Antidrone permits the use of a wide range of devices to scan the airspace and detect flying objects. Kaspersky Antidrone software makes it possible to combine several types of sensors within the same system.

1. Drone detection by initial detection modules
2. Data processing in Kaspersky Antidrone server for analysis by neural networks
3. Automatic control of classification modules
4. Display of all stages in the user interface
5. Transmission of the control signal to the neutralization modules, if necessary



Continuous real-time monitoring of airspace takes place in the control panel, where alerts are received and data on past incidents are collected.

- Intuitive interface
- Module layout in the interface
- Precise threat level alerts
- Display of objects of any size
- Incident archive
- Self-diagnosis system
- Operation without an internet connection
- Connection via API for enhanced SOC
- Integration into SIEM systems



Methods of system implementation

Stationary system

Stationary version is used to protect static objects.

- Initial detection module
- Classification and neutralization modules
- Control server
- Software
- Hardware by site type

Mobile system

Mobile version is suitable for public events and remote locations.

- Mobile platform
- Initial detection module
- Classification and neutralization modules
- Control server

Software integration

Used in cases when surveillance equipment is installed.

- Hardware assessment
- System project
- Software integration

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