

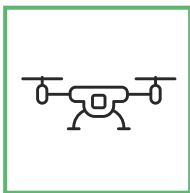


ORWELL-R

RACCOON



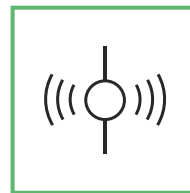
Radar system for detection and tracking of targets



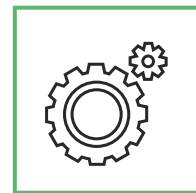
Detection of unmanned aerial vehicles of any class



Measuring coordinates



Low radiated power







Ability to customize detection algorithms for different surfaces

RACCOON

Radar system for detection and tracking of ground, surface and air targets is designed for automatic detection of small UAVs, as well as ground and surface targets, measuring coordinates and issuing target detection to optoelectronic devices and countermeasures systems.

Assignment

-  Radar airspace survey
-  Automatic detection of small aircraft (small class UAVs)
-  Measurement of targets coordinates (range, azimuth, elevation, speed)
-  Neutralization of the UAV by suppressing (intercepting) the control channels and (or) positioning of the UAV and its safe landing



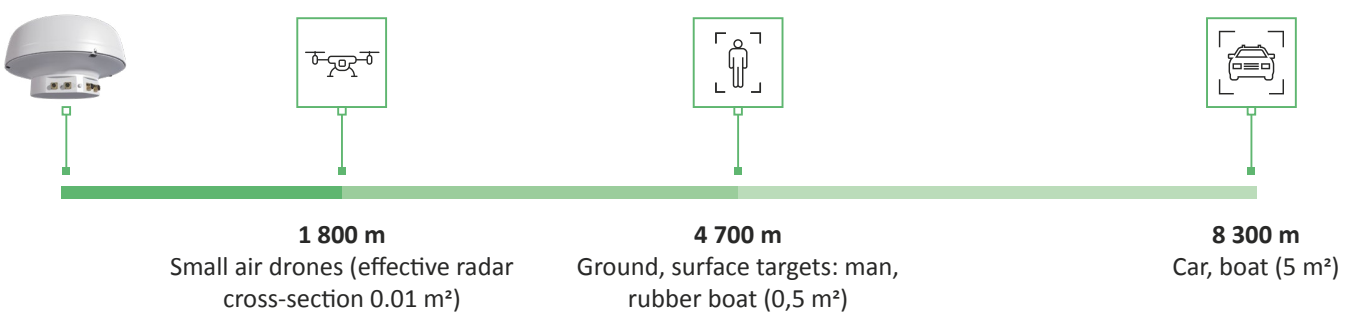
Features:

- multi-beam receiving antenna;
- control and data transmission using Gigabit Ethernet interface;
- target data acquisition for a PTZ video camera and an electronic countermeasure device;
- compact dimensions and low weight;
- the possibility of integration into third-party software systems.

Components:

- RACCOON radar system;
- video and thermal imaging camera on a PTZ platform (optional);
- directed jamming system (optional).

Дальность обнаружения



Raccoon at industrial facilities

Automatic fixation and neutralization of third party UAVs in order to counter:



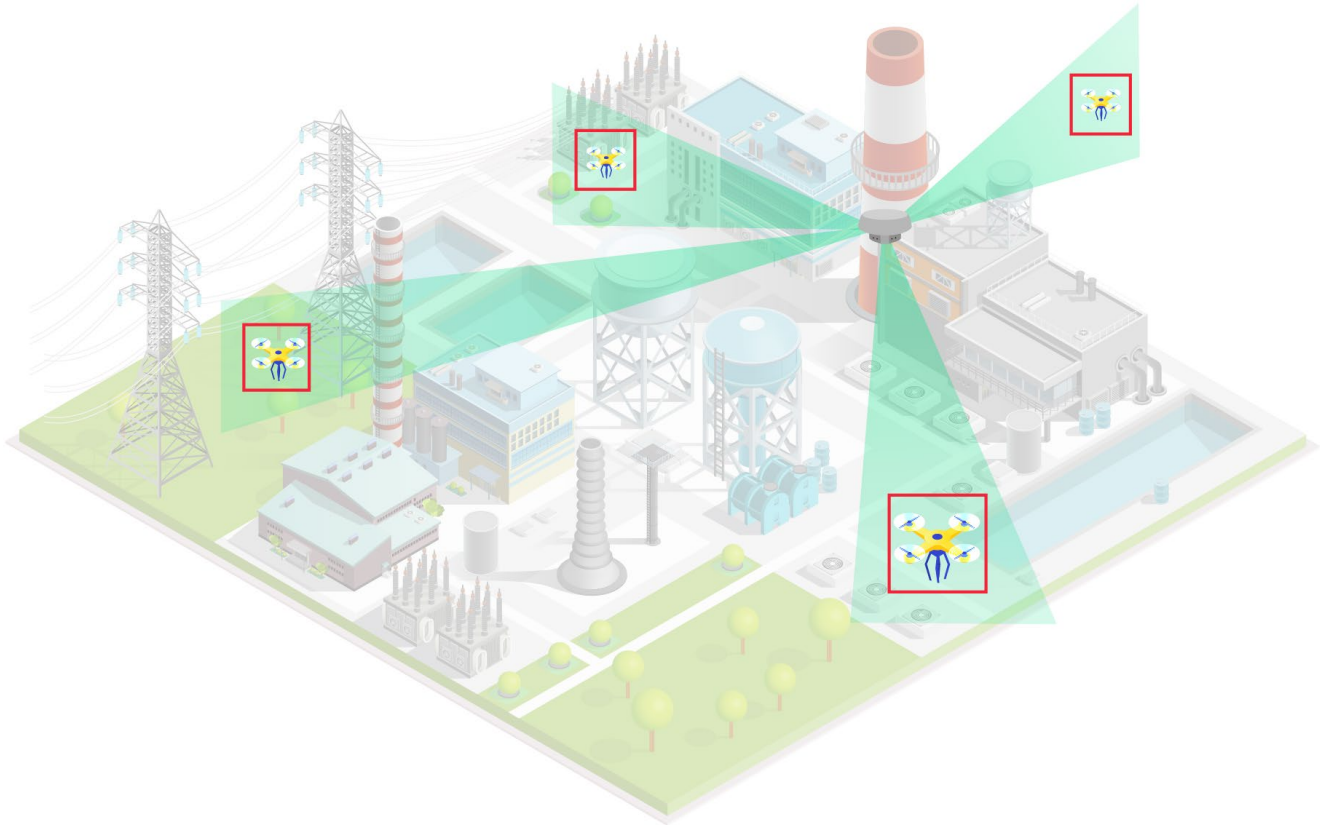
delivery of prohibited substances and devices to the facilities;



photo and video recording;



carrying out terrorist attacks and provocations of technogenic accident at the facility.



Characteristics	Value
Operating frequency range, MHz	from 9 200 to 9 500
The size of the viewing area (azimuth x elevation), deg.	360x60
Error of range measurement, m	2.0
The measurement error of the azimuth, deg.	2.0
The measurement error of the elevation angle, deg.	5.0
Radial velocity measurement error, m/s	0.3
Time to update information about the viewing area, s	2.0
Power supply, volt	24 DC
Weight, kg	14
Overall size (diameter x height), mm	645 x 310
Operating temperature range, °C	-40...+50

