

The background image shows two perimeter security systems in the foreground, each consisting of a sensor unit on a tripod. The sensor units are dark and have a boxy, industrial design. In the background, there is a large industrial facility, possibly a refinery or chemical plant, with several tall distillation columns and a network of pipes. The facility is illuminated with warm, yellowish lights, creating a strong contrast with the dark blue night sky. The overall scene conveys a sense of high-tech security in an industrial environment.

PERIMETER SYSTEMS

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How the System Works

Multi-Position Radar UAV Detector with the capability of automatic electronic suppression of UAV control and navigation channels.

- A group of multifunctional transmitters in standby mode creates directed UAV detection fields in the area of the protected object and the surrounding territory.
- Information about the detected target and its parameters is displayed on visualization devices (computer, tablet, smartphone) for decision-making.
- After detecting a target, the transmitters switch to the mode of electronic suppression of UAV navigation and control channels, either manually or automatically.
- Once the UAV stops being controlled, the transmitters automatically switch back to standby “illumination” mode.



Key Capabilities

Up to 16 channels of detection and neutralization of targets ensure the formation of an adaptive geometry of a continuous counteraction zone at altitudes of at least 500 m and distances up to 1200 m

One channel provides detection of targets with RCS from 0.01 m² and higher, moving at a speed of up to 30–45 m/s with determination of the direction of movement

Information exchange between the system elements is carried out via radio channels, as well as via a wired communication channel

- Dynamic range of transmitter power adjustment: from 3 to 10 W
- Information update rate: 1 sec
- Operating frequency ranges: 2.4...2.5; 5.7...5.9 GHz
- Suppression of control and video channels: up to 600 m
- Suppression of GPS, GLONASS channels: up to 1000 m