



SECURITY



Orad introduces

DROM

DRONE DEFENSE SYSTEM

DRONE DETECTION & NEUTRALIZATION SYSTEM

The rapidly increasing popularity of drones, in all shapes and sizes, has brought to light a whole assortment of new security threats. These small remote-controlled devices have already been involved in various airborne chaos and spying activities around the world and have become dangerous to government entities and public safety but security specialists are exploring the next potential hazard - terror drones carrying weapons, or used for suicide missions.

To address this increasing threat, ORAD has devised a military grade solution, DROM DDS, an innovative security system to detect control and neutralize drones. Our Solution was designed for facilities that need to keep their perimeter protected - such as sports venues, airports, correctional facilities etc.

Detecting approaching drones at over 2.5 kilometers, taking over their piloting abilities, neutralizing and landing them.

ORAD'S anti drone system proves high operational ability, detecting approaching drones at over 2.5 kilometers, taking over their piloting abilities, neutralizing them and landing them far from harm's way.

Integrated into an overall tailored protection package, this new system provides significant additional enrichment to our perception of Holistic Security. For today's proactive protection against drones, you need ORAD. Our hi-end integrated security systems provide perfect all-around solutions to all modern airborne threats, in any shape and size.



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INTRODUCTION TO DROM DDS

DROM DDS is a sophisticated security system for protection of sites against unwelcomed drones, preventing them from entering, flying above, or landing inside a given perimeter.

DROM DDS consists the following components:

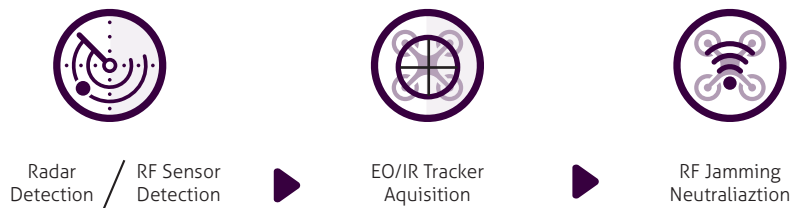
- ▶ Radar System - 3D Pulse-Doppler all weather radar, with azimuth mechanical scan (rotating) and elevation electrical scan (linear phased-array).
- ▶ RF Detection Unit – RF Sensor detects drone presence by analyzing signaling channel and radio transmission. Once a drone has been detected it triggers automatically an Alarm and Alerts the guard of a drone presence.
- ▶ EO/IR Tracker - Long range, ruggedized, gimballed, day/night electro-optical system.
- ▶ Hi Power Jammer - High power outdoor jamming system, aligned with the electro-optical system's line of site.
- ▶ Command & Control - Dedicated, configurable, user friendly command & control software, installed on PC.

All system and components are upgradable according to drone technological advancement!

Key Features:

- ▶ Blocks all Civilian drone/Quadcopter/UAV bands simultaneously
- ▶ Effective coverage 3.5 km Detection, 2 km Neutralization.
- ▶ Optional Reactive System triggered by a Radar
- ▶ Optional operation from a distance remote control computer
- ▶ Outdoor casing
- ▶ Various types of mounting and deployment options
- ▶ Separate No interference to nearby frequency bands
- ▶ VSWR & thermal protection
- ▶ Overheat protection: 75 °c cease operation, 71 °c resume of operation
- ▶ Operational Power: 90 – 260V
- ▶ Weight: approx. 38Kg
- ▶ Antennas: Directional High Gain antennas
- ▶ High Sensitivity Aerial Radar
- ▶ Ability to lock on target while Jammer using optical system
- ▶ Thermal Camera
- ▶ Ability of recording
- ▶ Threat is accurately identified, including the Drone model etc.
- ▶ No false alarms
- ▶ Calibration and Leveling are not required, can operate while moving
- ▶ Operates in any weather or area, including in crowded urban environment

DROM DDS flow of operation:



About Orad

Orad is a leading provider of integration services delivering proven end-to-end security, safety & HLS solutions. The company is highly experienced in implementing a wide range of projects such as border protection systems, military bases, defense agencies, safe cities, airports, seaports, railway terminals, correctional facilities, public buildings and more. In addition, Orad Group offers safety & fire detection, electromechanical systems, automation, control and solar energy (PV) in Israel and abroad.



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