

# DRONE DOME-L™

## Drone Detection, Neutralization and Interception System

### Ready to defend against hostile UAV threats

In recent years, there has been a significant increase in the use of Low, Small and Slow (LSS) UAVs. DRONE DOME-L is an innovative end-to-end system designed to provide effective airspace defense against hostile drones (Micro and Mini UAVs) used by terrorists and criminals to perform aerial attacks, collect intelligence, and carry out other intimidating activities. DRONE DOME-L has 360° coverage and is designed to detect, track, and neutralize drones classified as threats flying in No-Fly zones. DRONE DOME-L has a very fast response time, inflicting minimal damage to the surrounding urban environment, with maximum safety to friendly aircraft

### Benefits

- End-to-End solution
- Secures airspace
- Quick response
- Operational in all weather conditions
- 360° circular coverage
- High success rate
- Soft kill - by Comm. & RF jammer
- Hard kill - by laser
- Minimal collateral damage
- Modular configuration, tailored to customer requirements

## End-to-End Solution

The DRONE DOME-L System is operational under all weather conditions, 24/7.

First, the threat is detected and identified by the Radar and EO/IR sensors.

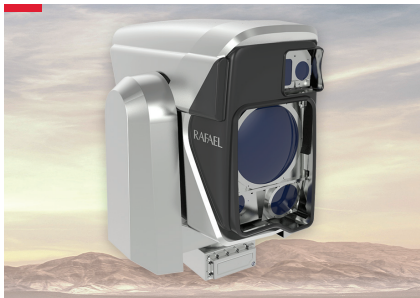
The data is combined, correlated and alerts the operator of the hostile UAV.

When the threat reaches the neutralization area, the hostile drone is defeated by selected means:

- Activating directional GNSS and RF Inhibitor / Jammer system
- Activating high power laser



### LITE BEAM



LITE BEAM engages and intercepts ("hard kill") the threat at extended range by utilizing an advanced & integrated beam director. The beam director is mounted on stabilized pan & tilt gimbal.

Upon cueing the C4I of the DRONE DOME-L, the LITE BEAM initiates the re-acquisition process of the threat by its EO suite (i.e. MWIR sensor) within the Field of Regard (FOR).

FOR: 360° (Az); 0-60° (El).

The advanced EO suite includes the following functionalities:

- Coarse Tracking
- Fine Tracking
- Range measurement
- Aim point selection & update
- Track File update and report

High power laser is directed toward the preferred aim point. Based upon high tracking capability, fast interception procedure is accomplished within several seconds, even at extended range.

### C-GUARD RD & NetSense System



- Blocks VHF, UHF drone channels effectively with Reactive Jamming (RJ) technology
- Targets all possible links on standard ISM and WiFi bands
- Operating frequency of 20- 6,000 MHz
- Detection and analysis of both standard and propriety wireless attacks via NetSenseTM
- 49.5x70.4x73 cm trolley case size
- Up to 400 W of total RF output power
- Designed for easy and rapid field deployment as well as mobile use

### RPS-42 Radar System



- Detection range up to 5 Km  
Minimum Target Size (RCS) 0.002 m<sup>2</sup> at 2 miles
- S band frequency Multi-Mission Hemispheric Radars (MHR)
- Up to four radars for full 360° azimuth coverage
- Average transmission power of 60W
- Over 15,500 hours calculated MTBF
- Built-in Ethernet connectivity

## About the Manufacturers

The DRONE DOME-L system is manufactured by leading and trustworthy Israeli companies with worldwide reputation in their fields of expertise. All components are combat-proven and in use by various armed forces and law enforcement agencies around the world.



AIR & MISSILE DEFENSE SYSTEMS DIVISION

Tel: (703)214-6795

Fax: (703)559-9611

Email: [eric.l.brown@rsgsllc.com](mailto:eric.l.brown@rsgsllc.com)

HQ Tel: +(972)73-335-4714

Fax: +(972)73-335-4657

Email: [Intl-mkt@rafael.co.il](mailto:Intl-mkt@rafael.co.il)

[www.rafael.co.il](http://www.rafael.co.il)

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