



FUTURE

# X-RADAR SHORT RANGE

TECHNOLOGY



WIDE-AREA MULTI-MISSION DETECTION AND DEFEAT



# X-Radar Short Range

**Entry -Level Autonomous Integrated Detection and Countermeasure. Utilizing and combining sensors and effectors to create a fixed site system.**

A modular offering that integrates optical, radar, and RF sensors, edge computing systems, and software for a robust detection and countermeasure solution.



**All -in -One:** Detection and defeat in one package



**Cost -Effective:** Rapidly deployable solution with all the essentials for immediate operation



**Real -time Situational Awareness:** Combines situational data to deliver highly accurate information for automatic identification and response to UxS intrusions or threats





# Features



## Integrated Detection and Defeat

Dual capability built into one unit



## Robust and Ruggedized

Designed to meet military durability standards, with resistance to shock and vibration

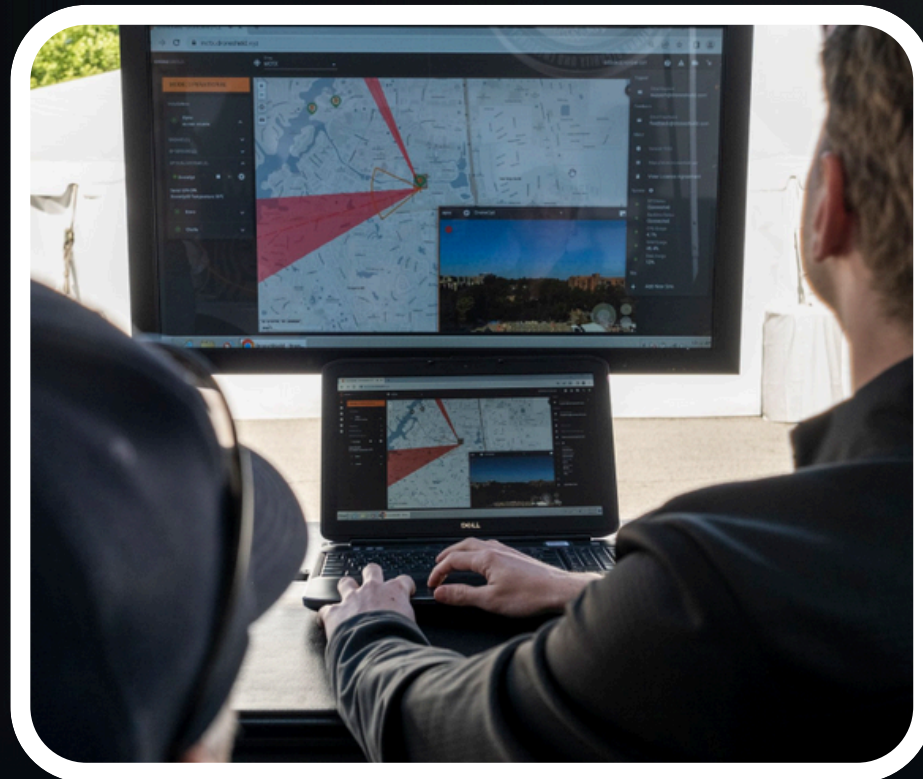


## GNSS Disruption

Disrupt UAS navigation capability for UAV leveraging satellite navigation or pre-planned guidance



# Features



## RFAI Software Updates

Quarterly software updates provided for both software-defined detection and optional defeat capabilities to stay ahead of emerging threats



## Control Tablet

Provided with a ruggedized tablet to support quick access and enhanced visualization



## FPGA and Software Defined Radio Technology



# Advantages

## Open Architecture and Integration

- Ready to integrate APIs with various data output options

## Mission Adaptable Modular Platform

- Multiple hardware and software configurations to support customization and match the requirements of the mission

## Integrated Detection and Defeat

- Dual capability built into a single unit with simultaneous multi-band receive and transmit





# Advantages

## Hemispheric Coverage

- Full hemispheric detection capability with directional (cardinal) bearing target identification

## Durable

- Designed to meet military durability standards, with resistance to shock, weather and UV exposure

## Cost Effective Solution

- Lower cost, dual-use capable solution compared to other mobile and fixed site solutions





# Operational Use Cases

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## Deployment Options for Military/Maritime Operators

The X-Radar Xk2 requires minimum training required for effective deployment and operation and is compatible with the following:



Vehicle



Ship



UGV



Building  
Rooftop





# Operational Use Cases

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## Authorized Law / Security Agencies / Infrastructure & Utilities

The X-Radar Xk2 is a robust, mobile solution that can be used for site and perimeter defense, VIP events, crowd, and border protection. It offers targeted digital disruption for limited collateral effect whilst presenting no civilian alarm.





# Specifications



## Close Range

### Compatible Products

- Bosch MIC 7100i optical sensor
- Echodyne EchoGuard radars
- CompassOne
- ComputeNode
- Rugged Network & Power Hub

### Edge Processors

### Output

Operates in real-time in DroneSentry-C2 User Interface

## Environment and Installation

### Ingress Protection

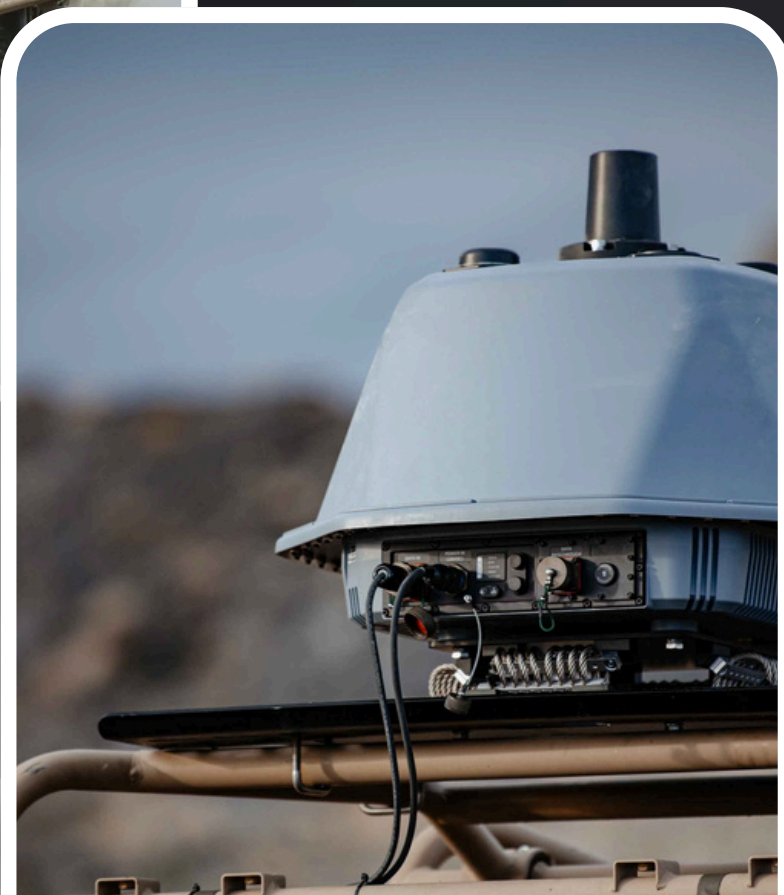
- Rated to IP67 (DroneSentry-X Mk2, Radars, CompassOne, Cables)
- Rated to IP68 (Bosch MIC 7100i)

### Mounting

Tripod or mast mountable



# Specifications



## Performance

Detection and disruption on UAS (e.g. drones) operating on consumer and commercial ISM frequencies

## Product Specifications

**Output and Integration**      Audio + visual alerts via UI JSON, gRPC, TAK compatible

## Product Specifications

<b>Packaging</b>	Ships in a wooden crate
<b>Dimensions</b>	1300 x 900 x 900 mm / 51.18" x 35.43" x 35.43"
<b>Total Shipped Weight</b>	110.0kg / 242.51lbs



# Specifications



## Environment and Installation

### Mounting

- Compatible with most commercial roof-racks
- Suitable in permanent and temporary mast installations

### Dimensions

710 x 710 x 532 mm / 28" x 28" x 21"  
(Antenna-mounted height)

### Weight

46kg / 101 lbs (including brackets)

### Operating Temperature

-20°C to +55°C / -4°F to +131°F

### Ingress Protection

Rated to IP67



# Thank You



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