

360° Dome UAS Detection



The FAA and Federal authorities have reported that dangerous incidents occur yearly and have increased over critical infrastructure and airports.

Compact UAS Surveillance Radar

- Turnkey, stand alone, and layered solutions bringing radar, RF detection, and optional mitigation systems
- Open design allows for seamless integration to all major existing VMS platforms and surveillance equipment
- Easy to install & simple to operate
- Low cost and leasing programs available

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Protection Beyond Fences



CUAS Solution



PROBLEM

From small and slow commercial types to large, high-speed military grade units, UAV threats are expanding rapidly in every corner of our daily lives. Fallout from attacks and malicious use of UAVs have global implications that can no longer be ignored. Those who would wish to do harm to others have found gaps in traditional security solutions and have changed their approach to maximize damage and destruction. Examples of this have been seen first hand in the most recent strikes against the Kingdom of Saudi Arabia and it's state owned enterprise of Saudi Aramco with the most recent estimates placing the global impact at no less than 5% of the worlds energy supply. Now is the time to ensure these gaps cannot be exploited.

SOLUTION

Our counter-drone radars can detect small DJI commercial drones to 400 m, while also being able to detect larger fixed wing drones at ranges of up to 1 km. The solution can be deployed rapidly and with minimal infrastructure to be implemented easily and cheaply to detect incoming threats at low altitudes. Multiple sites can be centrally monitored and maintained through our COP system and alerts to jamming, interference, and other counter measures against the radar system are included to provide real-time notification of any potential tampering. SpotterRF can provide full turnkey solutions to help mitigate UAV threats and when combined with additional components, both from SpotterRF and from third parties, for UAV jamming and disruption.

SPOTERRF PROVIDES THE FOLLOWING SOLUTION:

- Enhanced situational awareness with 24/7 automated detection and tracking of targets in user-specified zones.
- Ability to queue cameras, trigger alarms, and notify security personnel with images of activity.
- Provides 100% coverage in all weather conditions.
- Low nuisance alarm rate.
- Full site coverage capable of interior and exterior detection.
- Augmentation of existing security solutions and legacy technology to amplify efficiency.
- The compact form factor of SpotterRF radar minimizes power and data requirements allowing for rapid deployment and low cost of operation.
- SpotterRF radars can be installed in less than a day anywhere with an existing network and infrastructure.
- SpotterRF can integrate with all major VMS, PSIM platforms, and camera manufacturers.

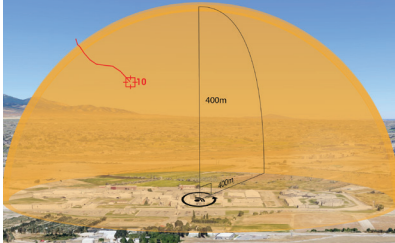
360° Dome & Fixed Radar Counter UAS

3D-series radar has the ability to measure latitude, longitude, and altitude of all aerial targets in a 250 m or 400 m wide hemisphere dome, even directly above the radar, with no gaps in coverage. Rapid threat assessment is simple with the automatic detection and 3D tracking of sUAS combined with fully automated camera queuing on the target.



TOP VIEW
Creates full dome UAS detection from 0 to 90° vertically and 360° horizontally

SIDE VIEW
3D tracking measures latitude, longitude, and altitude of all aerial targets in a 220 m or 400 m wide hemisphere dome



The radar creates full-dome UAS detection from 0 to 90° vertically and 360° horizontally.

- Detect and track UAS in 3-dimensions
- Distinguish between birds and drones using radar metadata
- Deploys and operates easily, even in urban environments
- Own your airspace with a full-dome coverage
- Small form factor makes it ideal for temporary and covert operations
- Detects small aircraft > .5 m²

Software Integrations

Drone detection is complex and difficult, especially in urban environments. Small drones are difficult for video analytics to detect, and urban noise makes acoustic detection nearly useless. Existing integration and ongoing development with VMS, PSIM, and C&C platforms include:

- • Milestone
- • FLIR - Chameleon
- • Genetec
- • Qognify
- • L3 - hC2
- • Northrup Grumman - Magnum
- • Software house - CCure

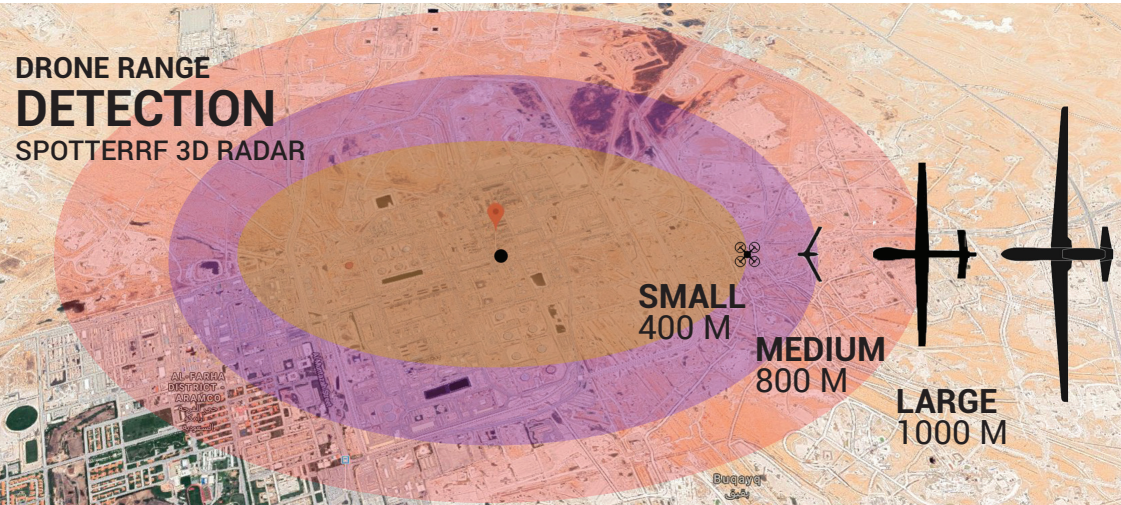
SpotterRF develops integrations with camera manufacturers and technology partners such as

- • CerbAir
- • AeroScope
- • Bosch
- • FLIR
- • Avigilon
- • Axis
- • Pelco
- • and more

A Universal Data connector is included in SpotterRF's NIO, allowing data to pass through to most standard RF and mitigation sensors. These strategic partnerships allow SpotterRF to offer turnkey, multi-layer UAS detection solutions which can be used in conjunction with directional and omni-directional mitigation technology to disable UAS threats.

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SpotterRF Coverage



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