

360° Counter UAS Radar

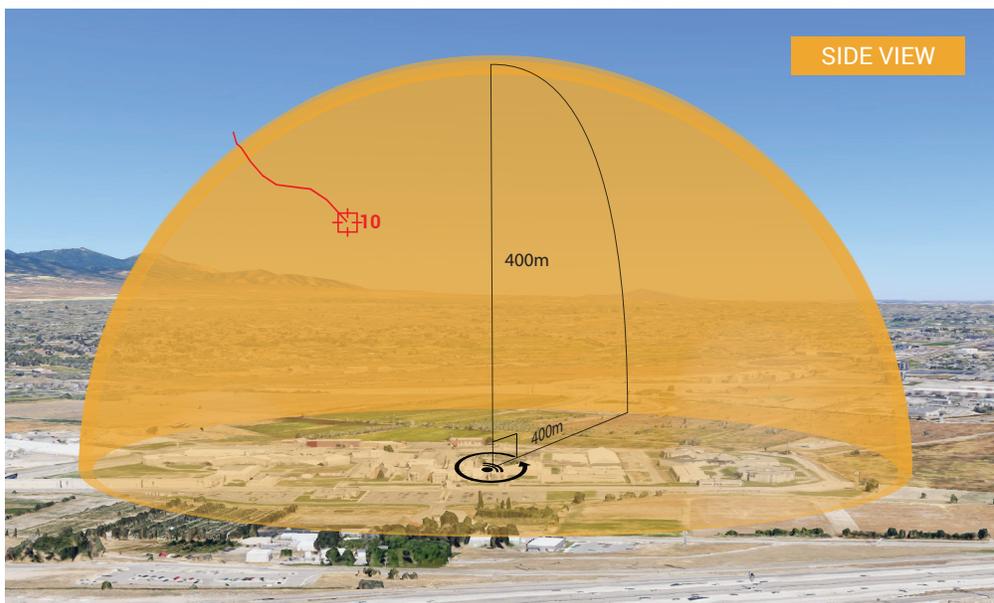


360° Dome Radar

The 3D-Series radar has the ability to measure latitude, longitude, and altitude of all aerial targets in a 400 m up to 1 km wide hemisphere dome, even directly above the radar with no gaps in coverage. Rapid threat assessment is simple with the automatic detection and 2D/3D tracking of sUAS combined with fully automated camera queuing on the target. Manpower and cost are both reduced with this system while mitigating the threat of undesired aerial presence.

The radar creates full dome UAS detection from 0 to 90° vertically and 360° horizontally with a single radar that weighs 12 pounds.

- Detect and track UAS in 3-dimensions
- Distinguish between birds and drones using radar metadata
- Deploy and operate easily, even in urban environments
- Own your airspace with a full hemisphere geofence
- Small form factor makes it ideal for temporary and covert operations



Protection Beyond Fences

360° Series Specifications	2D-250	2D-500	3D-250	3D-500
MAX DETECTION RADIUS: DRONE (RCS .01 M2)	230 meters	400 meters	230 meters	400 meters
EFFECTIVE FIELD OF VIEW	Full Dome Coverage Horizontal: 360° Vertical: 90°			
VERTICAL ANGULAR ACCURACY	±3°	±3°	±3°	±3°
HORIZONTAL ANGULAR ACCURACY	±3°	±3°	±3°	±3°
RANGE RESOLUTION	2.17 m	2.17 m	2.17 m	2.17 m
ROTATION RATE	220° per second	220° per second	220° per second	220° per second
COMMUNICATIONS	Ethernet, TCP/IP SpotterRF standard JSON Protocol, COT & KML	Ethernet, TCP/IP SpotterRF standard JSON Protocol, COT & KML	Ethernet, TCP/IP SpotterRF standard JSON Protocol, COT & KML	Ethernet, TCP/IP SpotterRF standard JSON Protocol, COT & KML
TRACK UPDATE RATE	0.667 Hz	0.667 Hz	0.667 Hz	0.667 Hz
SIMULTANEOUS TRACKS	20	20	20	20
SIZE OF RADAR & MOUNT	27" x 12" x 12"			
WEIGHT	12 pounds	12 pounds	12 pounds	12 pounds
INPUT VOLTAGE	48VDC	48VDC	48VDC	48VDC
POWER CONSUMPTION FULL POWER MODE	27-50 Watts	27-50 Watts	27-50 Watts	27-50 Watts
TRANSMIT FREQUENCY	70MHz in the 10.0 to 10.5 GHz FCC Licensed Band	70MHz in the 10.0 to 10.5 GHz FCC Licensed Band	70MHz in the 10.0 to 10.5 GHz FCC Licensed Band	70MHz in the 10.0 to 10.5 GHz FCC Licensed Band
PEAK RF TRANSMIT POWER	1 Watts	1 Watts	1 Watts	1 Watts
WATER RESISTANCE	IP66	IP66	IP66	IP66
TEMPERATURE RANGE	-20° C to 55° C			
TARGET MEASUREMENT CAPABILITY	Latitude / Longitude	Latitude / Longitude	Latitude / Longitude / Altitude	Latitude / Longitude / Altitude

Mobile Kit

Radar
 NIO-VM Hardened Laptop
 48VDC Power Supply
 All Required Cables
 Tripod with Mount and Tie Downs
 Custom Pelican Case

Fixed Kit

Radar
 48VDC Power Supply
 All Required Cables
 Custom Pelican Case

ITAR Controlled

2D-250 Radar	NO
2D-500 Radar	NO
3D-250 Radar	NO
3D-500 Radar	NO

NOTE: SEEK JURISDICTIONAL APPROVAL IN THE REGION BEING IMPLEMENTED



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