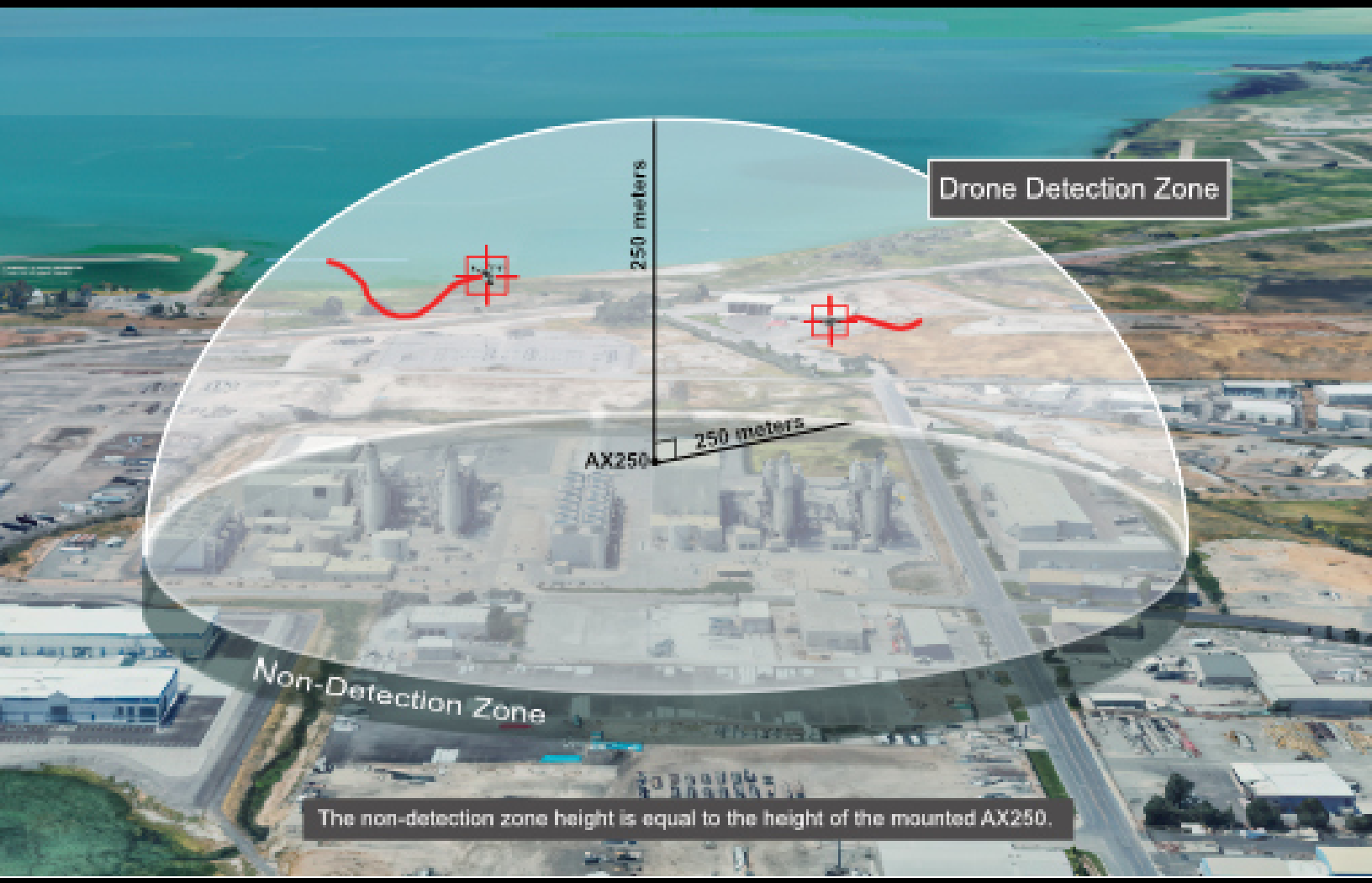
SPOTTER

AX250 RADAR

First to Detect.

First to Protect.

COUNTER-UAS 3D RADAR SYSTEM



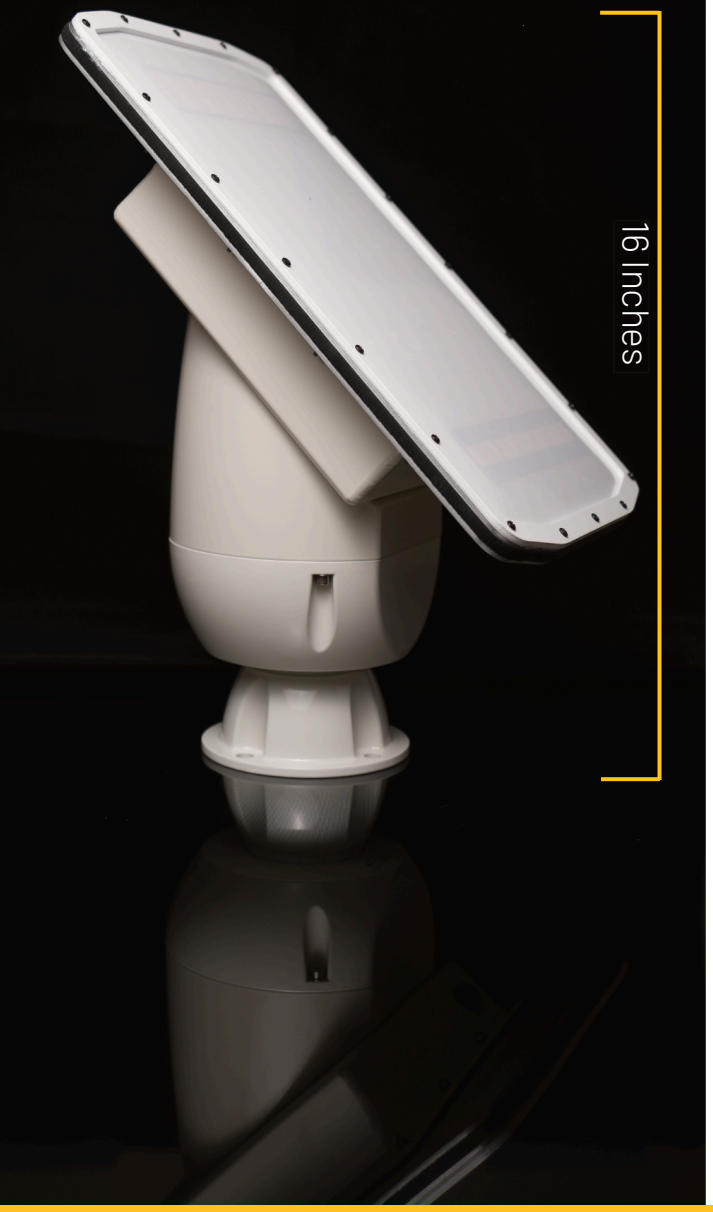
FOR MORE INFORMATION CONTACT:
sales@spotterglobal.com
801-742-5849
spotterglobal.com

PREVENTING HARM™

SPOTTER® GLOBAL

3D Drone Detection Radar

Governments, corporations and protectors of critical infrastructure have trusted Spotter's resilient, reliable and secure technology for over 14 years. We are ready to partner with you to create the best perimeter security system for your needs.



The AX250 is the first compact radar that creates a full 3D dome detection area. The combination of AX250, Spotter software, and 3D coverage provides:

- Early warning on drone perimeter breaches
- Real time tracking on targets from all directions, including directly above the radar
- Automatic PTZ camera slewing on targets
- Reliable nuisance alarm filtering
- All-internal cabling and has been ruggedized for use in high EM (electromagnetic) environments, making it ideal for use in substation security.

Spotter radars have proven themselves in the field to prevent harm, save lives and protect critical assets. The AX250 is the best compact rotating 3D radar technology available.

AX250 Specifications	
RADAR	
RADAR TYPE	FMCW (Frequency Modulated Continuous Wave) Doppler Radar
OUTPUT PROTOCOL	JSON, XML, KML
INTERFACE	Ethernet (Web UI or API)
PHYSICAL INTERFACE	Passive PoE through IP67 RJ45 connector, 10/100 Mbps RJ45 connector, 10/100 Mbps
OUTPUT DATA / TARGET MEASUREMENT CAPABILITY	Range, Accuracy, Speed, Total Distance, Displacement, Duration, Radar Cross Section, Geolocation, MGRS Coordinates, Estimated Altitude, Approach Rate, Change in Altitude, Heading, AI Primary and Secondary Classification
FREQUENCY BANDS OF OPERATION	70MHz in the 10.0 to 10.5 GHz FCC Licensed Band
RF TRANSMIT POWER	130 mW EIRP= 32dBm
DETECTION RANGE: DRONE	250 meters for 1.5 kg drone or heavier
EFFECTIVE FIELD OF VIEW	Full Dome Coverage: Horizontal 360° Vertical 90°
DIMENSION AND WEIGHT	H16" x L12" x W10" - 17.1 lbs
SCAN AND TRACK RATES	8 Hz - 0.667 Hz
SIMULTANEOUS TRACKS	20-40
NETWORK	
SECURITY	Password protection, HTTPS encryption, IEEE 802.1X (EAP-TLS) Network Access Control, User Access Log, Signed Firmware
SUPPORTED	IPv4/IPv6, ICMPv4/ICMPv6, HTTP, HTTP/2, HTTPS, SSL/TLS, SMTP, SNMP v1/v2/v3 (MIB-II), DNS/DNSv6, NTP, RTSP, RTP, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCPv4/v6, ARP, SSH
COMMUNICATIONS	Ethernet, TCP/IP SpotterRF standard JSON Protocol, COT & KML
GENERAL	
CASING	IP66 (mated and unmated) NEMA 6P compliant
POWER	Passive POE Over Ethernet (PPoE) IEEE 802.3at, Type 2 Class 4, 20-24 W @ 55 VDC
OPERATIONAL CONDITIONS	-40° C to 55° C -40° F to 131 ° F
GROUNDING	Required
APPROVALS	FCC, CLASS B (FCC license required)
EXPORT RESTRICTIONS *	ECCN GA008.f (Some export restrictions may apply)
COLOR OPTIONS	White (Standard)

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* Partners and Customers may be required to comply with export control laws, rules, and regulations. This may include complying with end-user, end-use, and destination restrictions.

Made in the USA

SPOTTER GLOBAL®

REV 8 10/2026
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