SPOTTER

Compact Holographic 3D Radar

CH3D®



GAX500-3D

Fastest Radar in the World: 18 Hz

Fastest Search Update Rates

Lowest Latency

Highest Precision

100% time on Target

Track Drone Swarms:

Unlike Electronically Scanned Arrays (ESA) that 'blink' for 1.8 seconds, the CH3D 'stares' at the 90° X 90° coverage area, while providing updates every 56 milliseconds, and tracking dozens of drones simultaneously with zero track loss.

Proven Heritage:

The world's first compact holographic 3D radar, built on 25 years of radar hardware and algorithm development, perfected while securing the world's most sensitive

Instant Target Lock:

32x faster data reduces camera lag, enabling instant slew-to-cue tracking on high-speed threats for continuous coverage.

Intelligence, Not Fatigue:

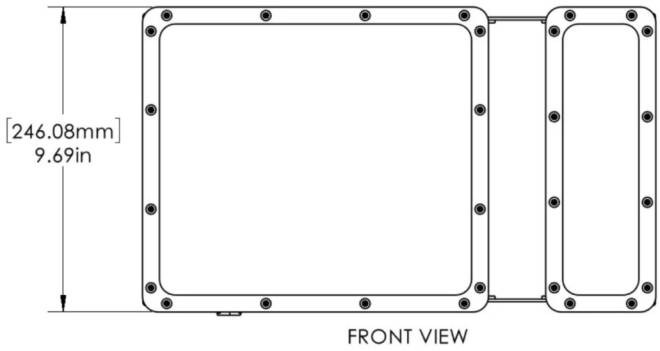
We filter environmental noise using decades of field data, minimizing false alarms to deliver clean tracks that empower security teams with live, accurate, and actionable data.

FIRST TO DETECT. FIRST TO PROTECT.

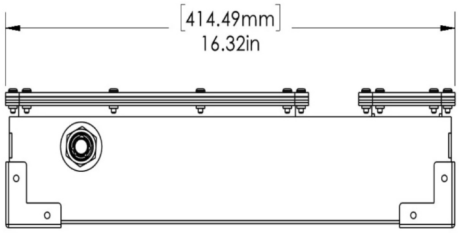
FOR MORE INFORMATION CONTACT:
sales@spotterglobal.com
801-742-5849
spotterglobal.com

Made in the USA

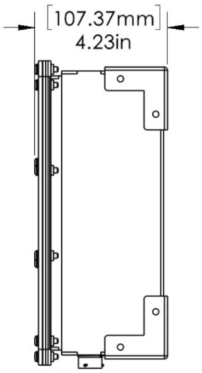
Product Dimensions



FRONT VIEW



BOTTOM VIEW

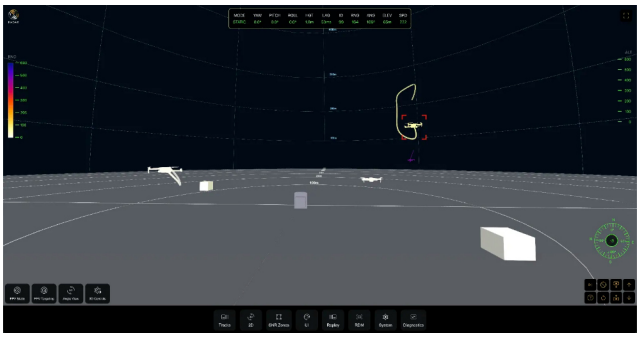


SIDE VIEW

The GAX500-3D is compatible with VESA 75mm and 100mm mounts.

Pole and Wall mount kits available.

3D Web Interface



GAX500-3D Specifications

FULL FIELD Of VIEW SCAN RATE/SEARCH UPDATE RATE	18 times per second (18 Hz)
TRACK ACQUISITION RATE	New tracks acquired <150 ms
EFFECTIVE FIELD OF VIEW/SCAN VOLUME	Horizontal: 90 degrees Vertical: 90 degrees
DETECTION RANGE	500 m (3 kg Drone) 1000 m (Person)
COVERAGE AREA	500 m x 500 m
EFFECTIVE RADIATED POWER (ERP)	3 Watts
ANGULAR RESOLUTION	±1°
RANGE RESOLUTION	0.75 m
SIMULTANEOUS TRACKS	50
WEIGHT	<4kg
POWER CONSUMPTION	**Max**: 45 W **Typical**: ~35 W @ 48 V DC
TEMPERATURE RANGE	–40 °C to 55 °C, -40 °F to 131 °F
FREQUENCY	10.0 to 10.5 GHz
OUTPUT DATA	GPS coordinates, range, elevation, azimuth, Velocity, RCS , heading, duration
OUTPUT PROTOCOL	JSON, XML, KML, Google Earth, NetworkedIO
PHYSICAL INTERFACE	Active PoE through IP67 PQT connector, 100Mbps
RUGGED/WATERPROOF	IP66/NEMA 6P compliant
SETUP TIME	Less than 10 minutes using Web UI

No moving parts / Zero Maintenance

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