

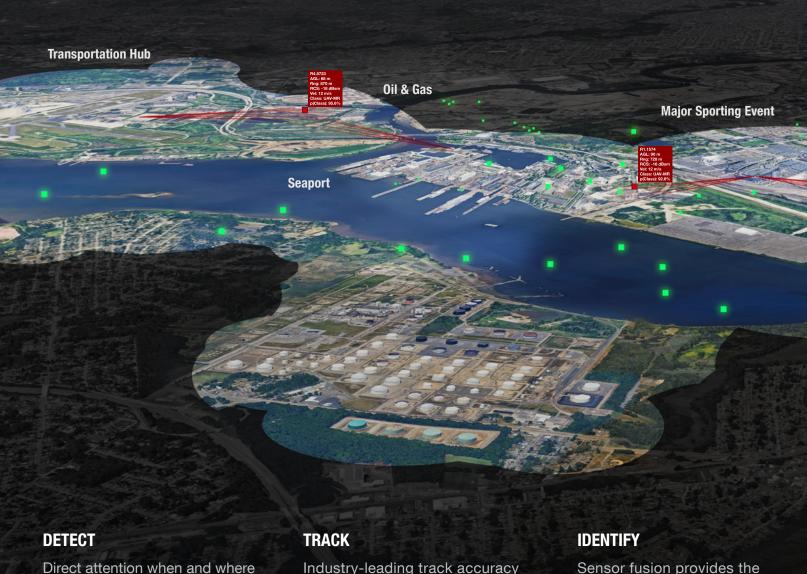
Smarter Radar. Superior Security.

BETTER DATA.
REACT FASTER.
OWN EVERY PERIMETER.



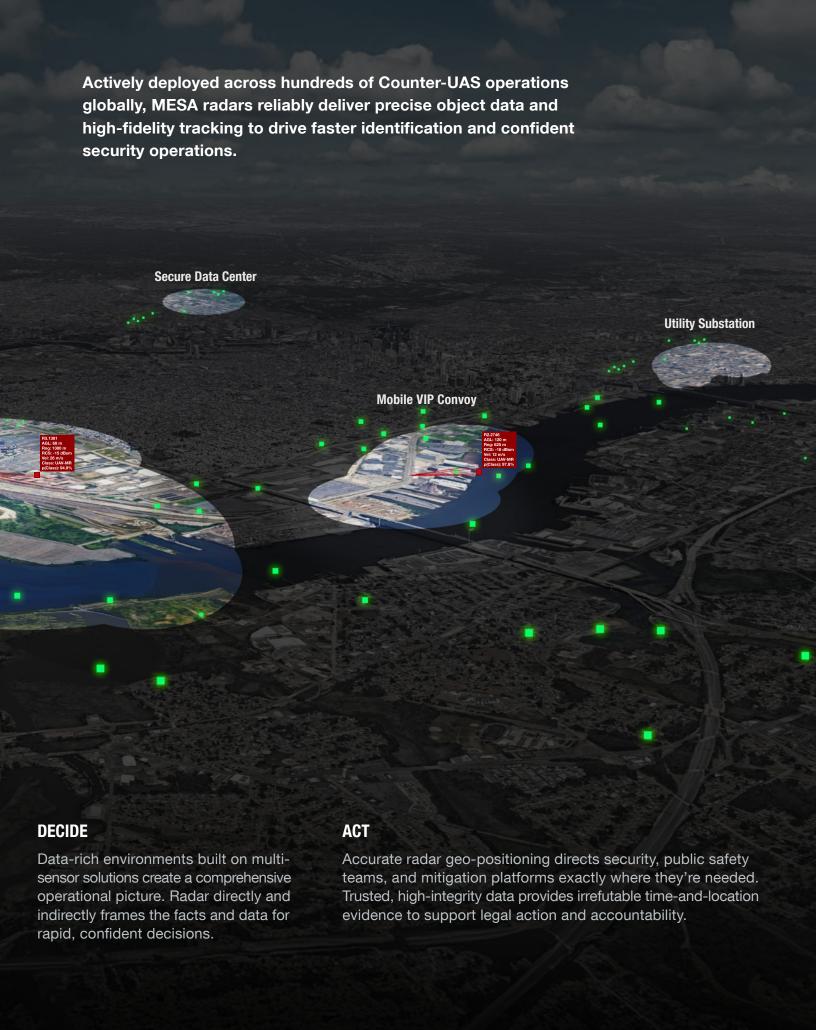
Unmatched Airspace Awareness

Command the skies. Secure what's below.



Direct attention when and where it matters most while reducing operator fatigue through clutter mitigation and advanced object discrimination. Industry-leading track accuracy locks surveillance on potential threats and maintains heightened and focused situational awareness.

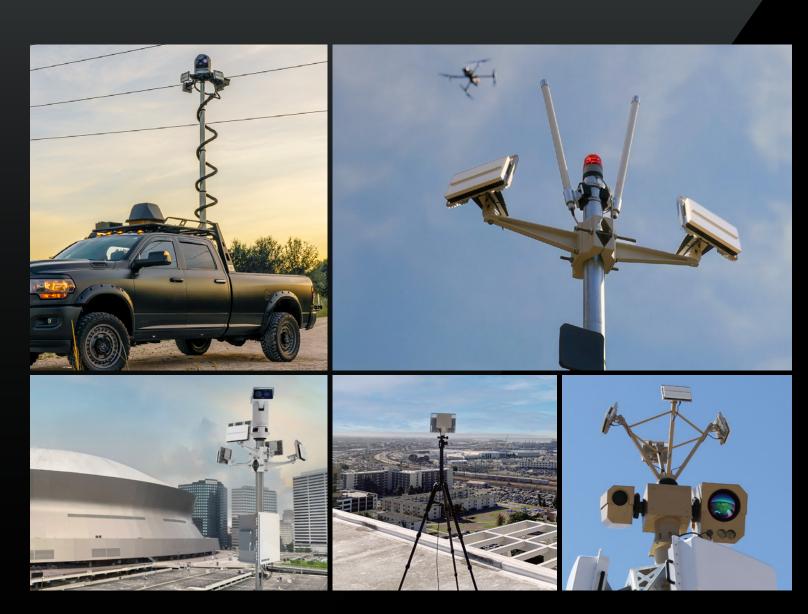
Sensor fusion provides the clearest picture of the airspace, with radar maintaining optical sensor lock and advanced classification accelerating identification of UAS intruders.



One Radar. Perimeter Secured.

Flexible enough for any facility.

Powerful enough for every threat.



From busy ports to remote power facilities, MESA radars deliver dependable, multi-domain surveillance. The intelligence-rich data integrates seamlessly into perimeter security ecosystems, closing coverage gaps, enhancing other sensors, and sharpening decision-making.

AIRPORTS

PORTS

DATA CENTERS

PUBLIC SAFETY

ENERGY

STADIUMS

OIL & GAS

UTILITIES

PRISONS





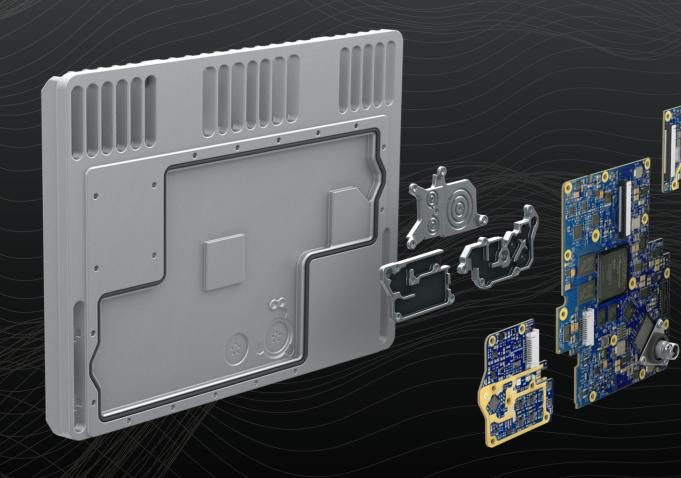




Better by Design

MESA®

Patented physics-design approach shatters design barriers to miniaturizing ESA radar. MESA creates industry-leading ultra-low SWaP ESA radars with commercial pricing and availability.





ACCURACY

With the highest angular accuracy in its weight class and 10 Hz precision track data, pinpoints every object of interest, consistently slews optical sensors and locks effectors.

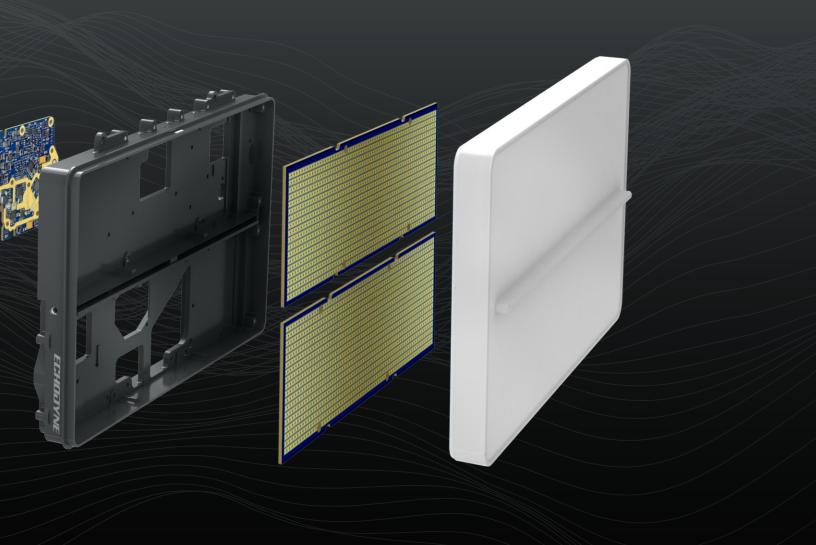


CLASSIFICATION

Smarter radar leads to smarter systems. Superior Al-based classification models discriminate every detail in every scene.

Software-defined

Software is the foundation for adaptable multimission, multi-domain, multi-modal radar. On-radar processing combined with off-radar networking and protocol conversion.





MOBILITY

Same advanced radar performance for every modality: fixed, temporary, portable, or on-the-move (OTM), on land, sea, or in the sky.



COGNITIVE/ NETWORKING

Seamless networks of radars. Waveform and beam scheduling adaptive to external sensors and systems. Future-ready.

EchoShield®

Whether fixed, temporary, or on the move, EchoShield detects aerial and surface threats and tracks thousands of objects simultaneously to secure expansive perimeters and challenging environments. From critical infrastructure protection to drone as first responder programs, EchoShield delivers the advanced situational awareness that modern security operations demand.

TYPICAL TRACKING RANGE



SMALL 4-ROTOR **3** km



FIXED WING 7.9km

HUMAN

LARGE

HELICOPTER 12.5 km **FIXED WING SMALL VEHICLE** SMALL VESSEL 12.5 km





SIZE

42.9 x 32.9 x 18.7 cm 16.9 x 12.9 x 7.4 in

WEIGHT

19.2 kg 42.3 lbs

POWER

+20 to +33 VDC (+28 V nominal) <250 W Operating

FREQUENCY

15.4 - 16.6 GHz

FIELD OF VIEW

130° Az x 90° El

TRACK ACCURACY

 $< 0.5^{\circ} \text{ Az x} < 0.5^{\circ} \text{ El}$

TRACK UPDATE RATE

10 Hz

MAX TRACKS

> 1,000 Objects of Interest





Kits & Accessories

Quick Start Kit
Tower Mount Kit
Rapid Deployment Kit









Technical & Software Support

Companion package with dedicated tech support and continuous software improvements.

EchoGuard®

EchoGuard is trusted for flexible, reliable protection. Compact, portable, and easy to integrate, it delivers dependable detection of air and surface threats for permanent and temporary security surveillance deployments. From secure site protection to shortrange coverage in urban environments, EchoGuard enhances layered security wherever comprehensive awareness is critical.

TYPICAL TRACKING RANGE



SMALL 4-ROTOR 1 km



FIXED WING 2^{km}

HÙMAN **1 2.2** km

FIXED WING 2 5 km

THE RESIDENCE PROFES

HELICOPTER 3.5 km

SMALL VEHICLE SMALL VESSEL 3.5 km





16.3 x 20.3 x 5.7 cm 6.4 x 8 x 2.3 in

WEIGHT

1.25 kg 2.8 lbs

POWER

+15 to +28 VDC 50 W Operating

FREQUENCY

24.45 - 24.65 GHz (USA) 24.05 - 24.25 GHz (INTL)

FIELD OF VIEW

120° Az x 80° El

TRACK ACCURACY

< 1° Az x < 1.5° El

TRACK UPDATE RATE

10 Hz

MAX TRACKS

Up to 20 Simultaneous



Kits & Accessories

Quick Start Kit Tower Mount Kit Radar Hub **Lightweight Deployment Kit**



EchoFlight®

EchoFlight takes security vertical. Whether temporary or permanent, tethered drones, aerostats, and UAVs equipped with radar secure the perimeter anywhere, anytime.



TYPICAL TRACKING RANGE



SMALL 4-ROTOR **750** m





LARGE FIXED WING 2 km



SIZE

12.1 x 18.7 x 4.1 cm 4.8 x 7.3 x 1.6 in **WEIGHT**

819 g 1.8 lbs **POWER**

+ 12 to + 28 VDC 45 W Operating **FREQUENCY**

24.45 - 24.65 GHz

FIELD OF VIEW

120° Az x 80° El

TRACK ACCURACY

< 1° Az x < 1.5° El

TRACK UPDATE RATE

10 Hz

MAX TRACKS

Up to 20 Simultaneous



Technical & Software Support

Companion package with dedicated tech support and continuous software improvements.



Echodyne, the radar platform company, is a U.S. designer and manufacturer of advanced commercial radar systems for defense, government, and commercial market applications. The company combines patented metamaterials electronically scanned array (MESA) architecture with powerful software and machine learning to deliver high fidelity situational awareness data pinpointing activity in air and surface domains with unrivalled speed, accuracy, and precision. Proven and trusted by militaries, agencies, integrators, and critical infrastructure across the globe, Echodyne's products set a new standard for radar excellence. Privately held, the company is headquartered in Kirkland, WA, USA and backed by Bill Gates, NEA, Madrona Venture Group, Baillie Gifford, Northrop Grumman, and Supernal, among others.

See radar in action at Echodyne.com.





