

# Radar for the Future Force

DETECT MORE.

DECIDE FASTER.

DOMINATE



### Counter-UAS Radar Excellence

Rapidly Scale, Evolve, Maneuver



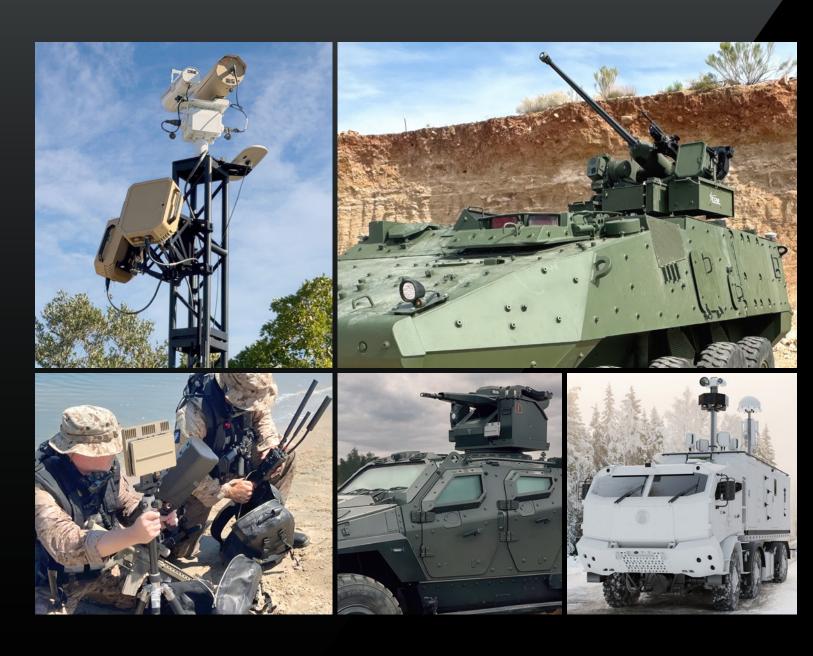
Broad, customizable FoV. Optimized search pattern. Small beam interrogation for improved object separability. Rich data on every threat. Accurate 10 Hz track data optimizes sensor fusion and discriminates hundreds of targets for effectors. Ultra-precise tracking locks RWS on target and adds critical data to FCS.

High fidelity radar data locks optical sensors on enemy UAS faster, more consistently, and more accurately.



# Trusted by Defense Forces Worldwide

Mission Ready. Combat Proven.



Layered Force Protection. Ultra-low SWaP for all-domain ISR.

C-UAS FORCE PROTECTION

OTM BASE SECURITY

ISR SPECIAL OPERATIONS

RWS CONVOY SECURITY







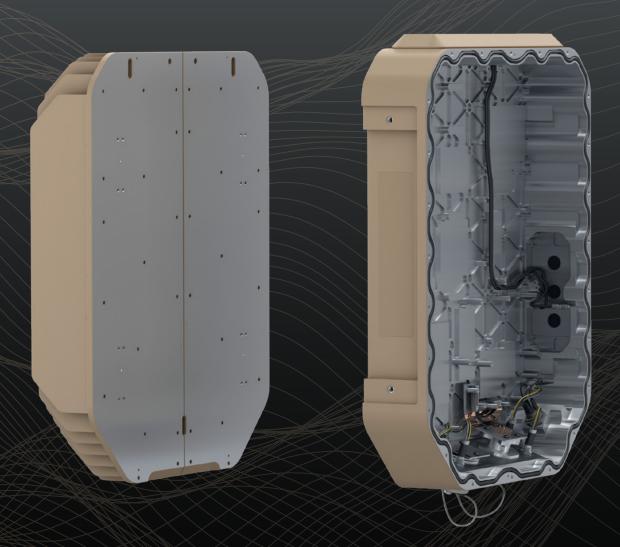


Multi-Mission. Multi-Domain. Multi-Modal.

# 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**

Highest angular accuracy (azimuth and elevation). Consistently slews optical sensors, locks RWS effectors with 10 Hz precision track data, and pinpoints every object of interest.

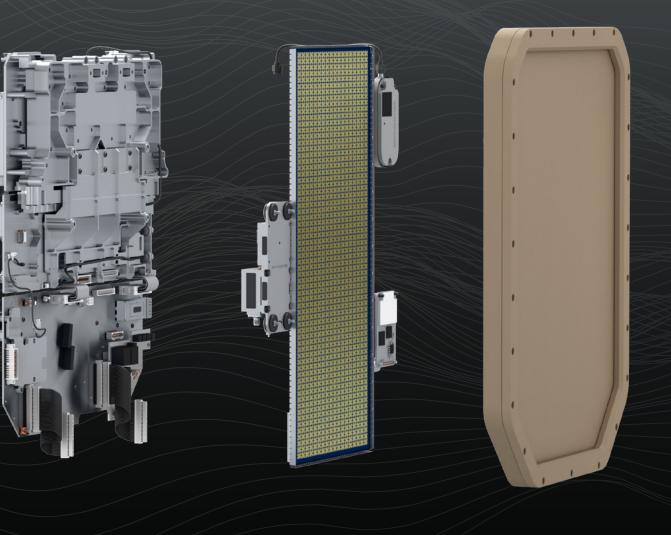


#### CLASSIFICATION

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.





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







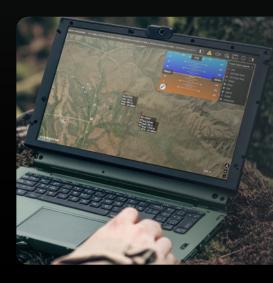
## Kits & Accessories

Quick Start Kit Tower Mount Kit Rapid Deployment Kit









## Technical & Software Support

Companion package with dedicated tech support and continuous software improvements.



#### SIZE

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

 $< 1^{\circ} Az x < 1.5^{\circ} El$ 

#### TRACK UPDATE RATE

10Hz

#### **MAX TRACKS**

Up to 20 Simultaneous



### Kits & **Accessories**

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



### **EchoFlight®**

Lightweight Airborne CUAS

TYPICAL TRACKING RANGE



SMALL 4-ROTOR **750** m



MULTIROTOR



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.





