



EchoShield®

Multi-Mission 4D Radar

Next-Gen ESA

Fixed, Portable, On-the-Move (OTM)

Extraordinary Accuracy

Medium-Range, Software-Defined, Pulse-Doppler, Cognitive Metamaterials ESA (MESA®) Radar.

RADAR PERFORMANCE	SWaP & ENVIRONMENTAL	INTEGRATION & DATA
<p>Frequency Ku-band 15.4 – 16.6 GHz</p> <p>Field of View 130° Azimuth x 90° Elevation</p> <p>Track Accuracy < 0.5° Azimuth x < 0.5° Elevation</p> <p>Track Update Rate 10 Hz</p> <p>Max Tracks > 1,000 Objects of Interest</p>	<p>Size 42.9 cm x 32.9 cm x 18.7 cm</p> <p>Weight 19.2 kg</p> <p>Power +20 to +33 VDC < 100 W (Hot Standby) < 250 W (Operating)</p> <p>Operating Temp -40° C to +65° C</p> <p>Weather Protection IP67</p> <p>Environmental MIL-STD-810 H</p>	<p>Control I/O Gigabit Ethernet</p> <p>Power I/O MIL-STD_38999 Style Bayonet</p> <p>Data Output 10 Gbps Ethernet Range-Doppler Spectrograms</p> <p>1 Gbps Ethernet Detections, Measurements Tracks, Radar Status</p> <p>Mounting 4x M6 200 mm Bolt Pattern</p>

ADVANCED ESA PERFORMANCE

EchoShield aligns advanced waveforms and agile beam schedules with cognitive functionality to build an ESA radar with outsized performance. Whether deployed in static, portable, or OTM configurations, EchoShield searches large volumes of airspace to deliver extraordinarily precise and actionable target data.

Counter-UAS Performance

UAS Typical Tracking Ranges

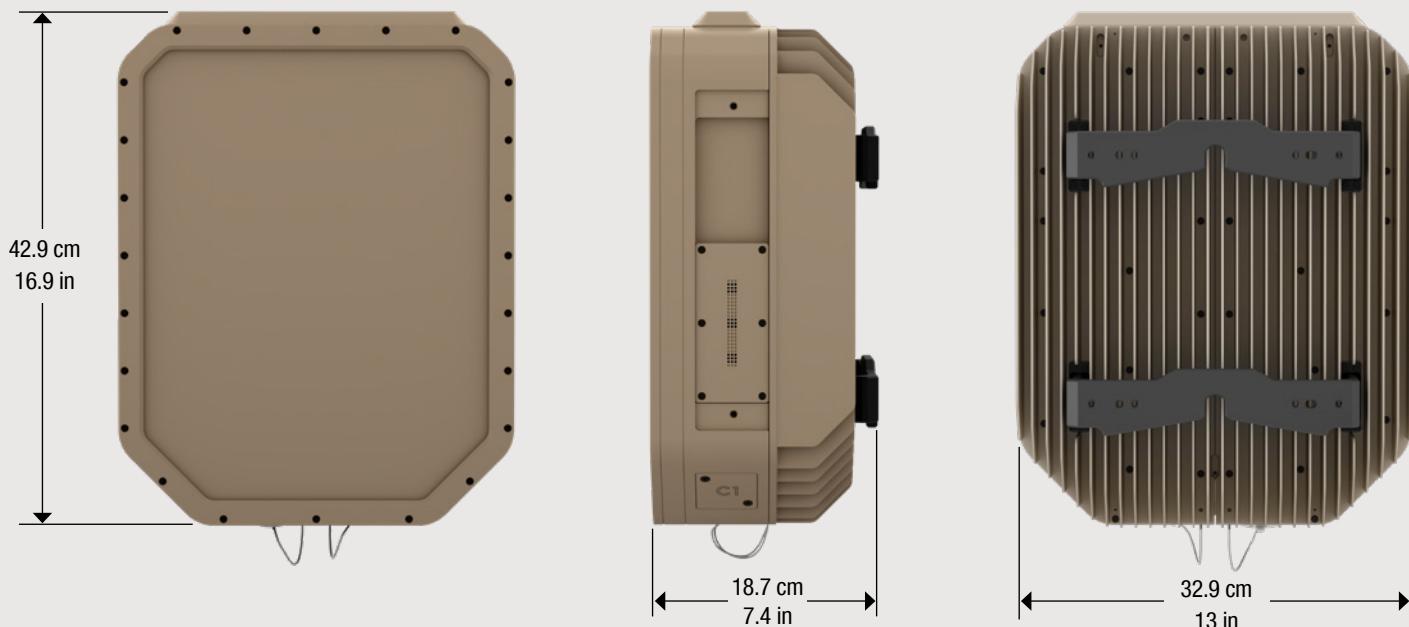
- Group 1: 3 km to 5.3 km (-20 to -10 dBsm)
- Group 2: 5.3 km to 7.2 km (-10 to -3 dBsm)
- Group 3: 7.2 km to 12.5 km (-3 to 5 dBsm)

Perimeter Surveillance Performance

Human Movement: > 9.4 km

Vehicles: > 12.5 km

RADAR DIMENSIONS



ORDERING DETAILS

TAN (AMS 595a: 33446) 700025-300-200 (shown)
WHITE (BRIGHT) 700025-300-100

GREEN (AMS 595a: 34094) 700025-300-300
GRAY (AMS 595a: 36270) 700025-300-400

REGULATORY

FCC ID: 2ANLB-MESA00055
CE, RoHS 3, RED

Software & Support

SOFTWARE UPDATES

Continuous Improvement from Software-Defined Radar

- Includes All Major and Minor Releases
- Improve Radar Operations
- Enhanced Classification
- Radar Data Visualization Tools
- Radar Support Tools

TECHNICAL SUPPORT

Priority Access to Radar Support

- Review and Training Sessions
- Systems Integration
- Troubleshooting
- Performance Review
- Planning



PRIORITY TECHNICAL SUPPORT

Priority queuing via company match when using support@echodyne.com.



CUSTOMER PORTAL

24/7 access to all tools, manuals, and materials.



PERFORMANCE ENHANCEMENT

Continuous improvements through software development.



USER COMMUNITY

Submit requests for features and functionality.