

EchoGuard[®]

4D Surveillance Radar

Superior Drone Detection

Enhanced Perimeter Security

Market-Leading Performance



Short-Range, Software-Defined, 4D Metamaterials
ESA (MESA[®]) Radar in a Compact Solid-State Format.

RADAR PERFORMANCE

Frequency

K-band 24.45 – 24.65 GHz (USA)
K-band 24.05 – 24.25 GHz (INTL)

Field of View

120° Azimuth x 80° Elevation

Track Accuracy

< 1° Azimuth x < 1.5° Elevation

Track Update Rate

10 Hz

Max Tracks

Up to 20 Simultaneous Tracks

Instrumented Range

6 km

Range

sUAV: > 1 km (Phantom 4)
> 1.4 km (Matrice 600)
Vehicle: > 3.5 km
Human: > 2.2 km

SWaP & ENVIRONMENTAL

Size

20.3 cm x 16.3 cm x 4 cm

Weight

1.25 kg

Power (USA)

+ 15 to + 28 VDC
50 W (Operating)
≤ 10 W (Hot Standby)

Power (INTL)

+ 15 to + 24 VDC
50 W (Operating)
≤ 7 W (Hot Standby)

Operating Temp

- 40° C to + 75° C

Weather Protection

IP67

INTEGRATION & DATA

Control I/O

Gigabit Ethernet

Power I/O

Snap Lock 12 Pin Connector

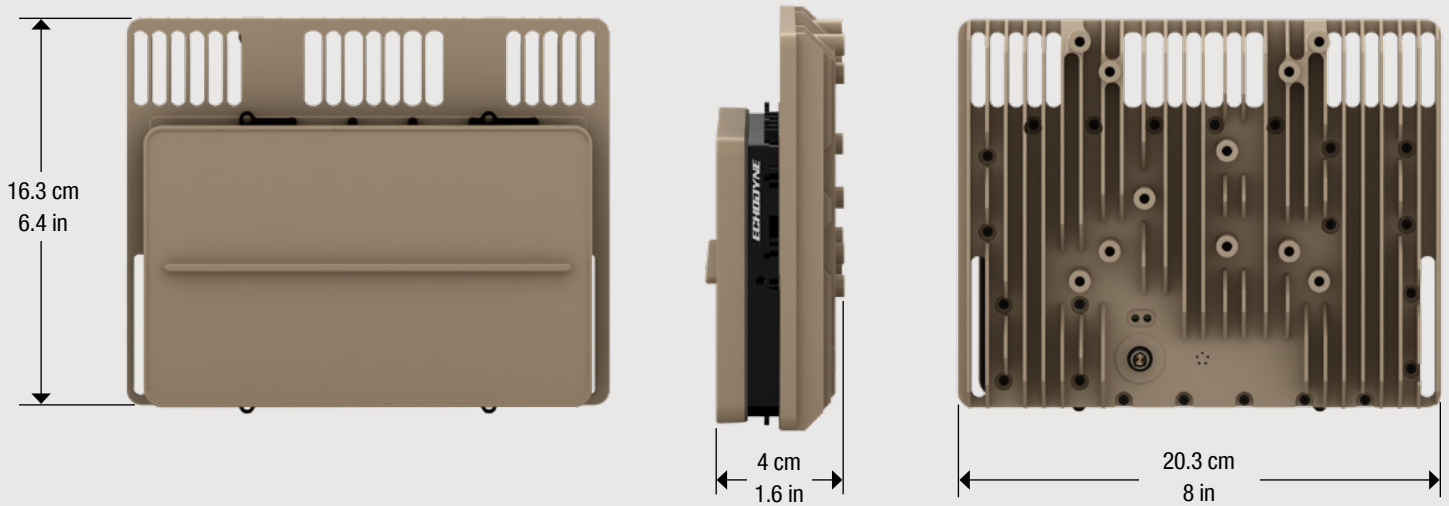
Data Output

R/V Maps: 40 MBps
Detections: 1 MBps
Measurements: 1 MBps
Tracks: 25 KBps

Mounting

VESA 75 & 100 mm

RADAR DIMENSIONS



ORDERING DETAILS

EchoGuard (USA)
FCC ID: 2ANLB-MESASSR00053

- WHITE 700-0005-203-100
- TAN 700-0005-203-200

EchoGuard (INTL)
Regulatory: CE, RoHS 3, RED

- WHITE 700-0005-206-100
- TAN 700-0005-206-200

Software & Support

SOFTWARE UPDATES

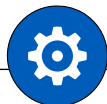
Continuous Improvement from Software-Defined Radar

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

TECHNICAL SUPPORT

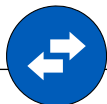
Priority Access to Radar Support

- 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.