## 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  

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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 DIMENSIONS

16.3 cm
6.4 in

4 cm
1.6 in

20.3 cm
8 in

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 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.