EchoGuard®

4D Surveillance Radar

Superior Drone Detection
Enhanced Perimeter Security
Market-Leading Performance

Short-Range, Software-Defined, 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
16.3 cm x 20.3 cm x 5.7 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

16.3 cm
6.4 in

5.7 cm
2.3 in

20.3 cm
8 in

ORDERING DETAILS

ECHOGUARD (USA)

WHITE	Bright White	700-0005-203-100	
TAN	AMS-STD-595A: 33446	700-0005-203-200 (shown)	
GREEN	AMS-STD-595A: 34094	700-0005-203-300	
GRAY	AMS-STD-595A: 36270	700-0005-203-400	

ECHOGUARD (INTL)

WHITE	700-0005-206-100
TAN	700-0005-206-200
GREEN	700-0005-206-300
GRAY	700-0005-206-400

REGULATORY

FCC ID:
2ANLB-MESASSR00053

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.