

**ECHODYNE**



# 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



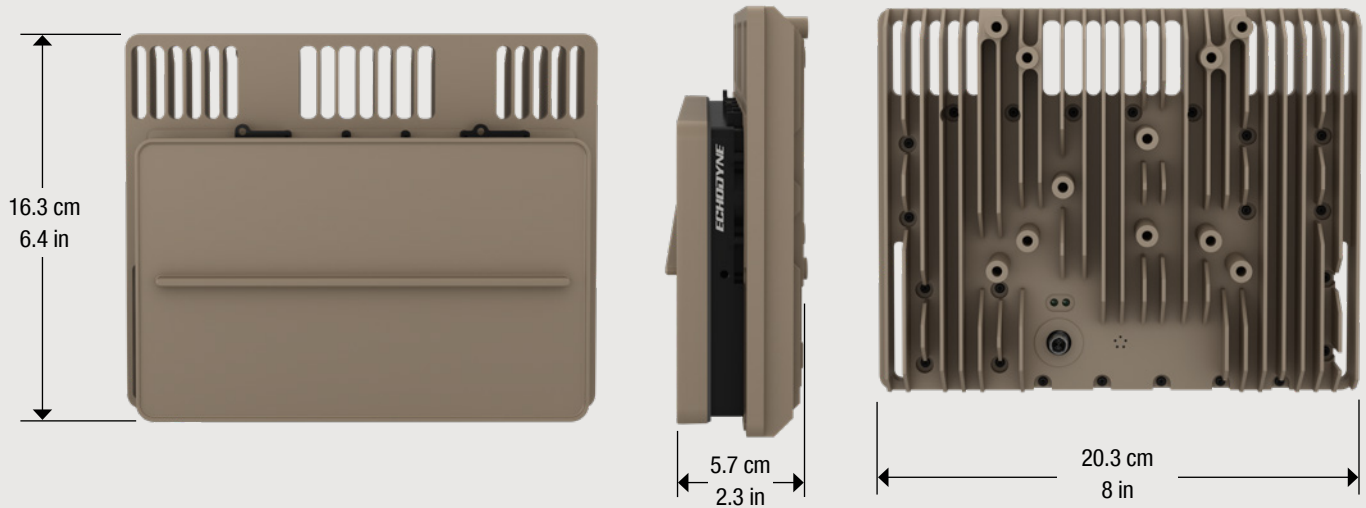
U.S.  
Designed &  
Manufactured



AS9100D  
CERTIFIED  
ISO 9001

**ECHODYNE**

## RADAR DIMENSIONS



## 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 Marked**

**RED Compliant**

**RoHS 3 Compliant**

## 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



### PRIORITY TECHNICAL SUPPORT

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



### CUSTOMER PORTAL SUPPORT

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



### PERFORMANCE ENHANCEMENT

Continuous improvements  
through software development.



### USER COMMUNITY

Submit requests for  
features and functionality.

### TECHNICAL SUPPORT

## Priority Access to Radar Support

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