STRONG, LOUD AND CLEAR WITH LRAD 500X

LRAD 500X is lightweight and can be easily transported to provide security personnel long range communications and a highly effective hailing and warning capability where needed.

The superior voice intelligibility and clarity of LRAD 500X provides a directional audio beam that can communicate with high intelligibility over 88 dB of background noise beyond 650 meters and capable of communicating over 2000 meters away in a benign environment. LRAD 500X operators have the ability to issue clear, authoritative verbal commands, followed with powerful deterrent tones to enhance response capabilities. The extended frequency range of LRAD 500X ensures voice commands will be clearly understood.
### ACoustics Performance
- **Maximum Continuous Output**: 148 dB SPL at 1 meter
- **Beam Width**: +/-15° at 1 kHz/-3dB
- **Frequency Range**: See frequency response curve below
- **Communications Range**: Highly intelligible speech transmissions over 2000 meters; *Max range of 650 meters over 88 dB of background noise.

### Environmental Performance
- **Hot Operating Temperature**: MIL-STD-810G, Method 501.5, Procedure II, Design type Hot, 60 °C
- **Cold Operating Temperature**: MIL-STD-810G, Method 502.5, Procedure II, Design type Basic Cold, -33 °C
- **Rain**: MIL-STD-810G, Method 509.5
- **Salt Fog**: MIL-STD-810G, Method 506.5, Procedure I, Blowing rain
- **Shipboard Vibration**: MIL-STD-167-1A
- **Shipboard Shock**: MIL-S-901D, Class I, Shock grade B
- **Random Vibration**: MIL-STD-810G, Method 514.6, Wheeled vehicles
- **SRS Shock**: MIL-STD-810G, Method 516.6, Procedure I (Functional shock)
- **Hot Storage Temperature**: MIL-STD-810G, Method 501.5, Procedure I, 70 °C
- **Cold Storage Temperature**: MIL-STD-810G, Method 502.5, Procedure I, -40 °C
- **Operating Humidity**: MIL-STD 810G, Method 507.5, Procedure II – Aggravated Cycle

### Mechanical
- **Emitter Array Dimension**: 25” W x 25” H x 12” D
- **Emitter Array Weight**: 44 lbs without accessories
- **Construction**: Molded cross-linked polyethylene, 6061 Aluminum, Stainless Steel connectors available as an option

### Electrical requirements
- **Power Consumption**: Normal power consumption 250 watts, Peak power consumption 350 watts
- **Power Input**: 12 – 28VDC

### Safety
- **MIL-STD-1474D

### Electromagnetic Compatibility (EMC)
- **FCC Part 15 class B radiated emissions, MIL-STD-461E, CE

### Colors
- **Gray**: Catalog No. LRAD-500X-G-SYS
- **Tan**: Catalog No. LRAD-500X-T-SYS

### NSN
- **Tan LRAD 500X with OGPK Mount**: 5830015812404
- **Gray LRAD 500X**: 5996015740072

*6+ dB above background noise is based on field trials conducted by independent sources.*

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*LRAD 500X Frequency Response*