



Strong, Loud and Clear with LRAD 500X™

The LRAD-X Advantage

Proven Performance

- Full Military & Sustainment Program Support
- Domestic & International Relief Assistance
- Meets Stringent U.S. Navy/U.S. Army Requirements
- Tested & Approved by ARDEC/Aberdeen Test Centres
- Available on GSA (U.S.A. Only)

Directionality, Output & Range

- Determine the Intent of a Threat at an Extended Range
- Variable Beam Width for Extended Coverage
- Clear, Long-Range Directional Communication

Features

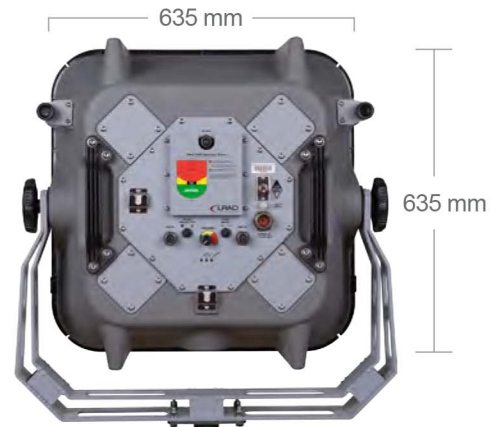
- Rugged Military Tested Construction
- Low Power Requirements
- All-Weather Use
- Lightweight
- Flexible Mounting
- Scalable & Portable
- Simple to Operate
- Safe Alternative to Non-Lethal Deterrent Options

Cost Effective

- Increased Coverage with Single Operator
- Improved Response Times
- Improved Coordination Efforts

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

The superior voice intelligibility and clarity of LRAD 500X provides a directional audio broadcast that can communicate with high intelligibility over 88dB of background noise beyond 650 metres and is capable of communicating over 2000 metres 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 over distance.



LRAD-500X Integrated Electronics System



LRAD-500X-RE Remote Electronics System

LRAD-500X®



ACOUSTIC PERFORMANCE

Maximum Continuous Output	149dB SPL @ 1 metre, A-weighted
Sound Projection	+/- 15° at 1 kHz/-3dB
Frequency Range	See frequency response curve below
Communications Range	Highly intelligible speech transmissions over 2000 metres ¹

ENVIRONMENTAL & DURABILITY

MIL-STD-810G ²	Hot/cold operating, hot/cold storage, blowing rain, salt fog, SRS shock, operating humidity
MIL-STD-167-1A ²	Shipboard Vibration
MIL-S-901D ²	Shipboard Shock, Class I, Shock grade B, Type A shock test

DIMENSIONS & WEIGHT

Emitter Array Dimension	635 W x 635 H x 305 D mm
Emitter Array Weight ³	19.96 kg
Construction	Moulded cross-linked polyethylene, 6061 Aluminium, Stainless steel connectors available as an option

ELECTRICAL REQUIREMENTS

Power Consumption	Typical Power consumption 265 Watts ⁴ Normal power consumption 60 Watts ⁵
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Power Input	12 to 28VDC
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SAFETY STANDARD

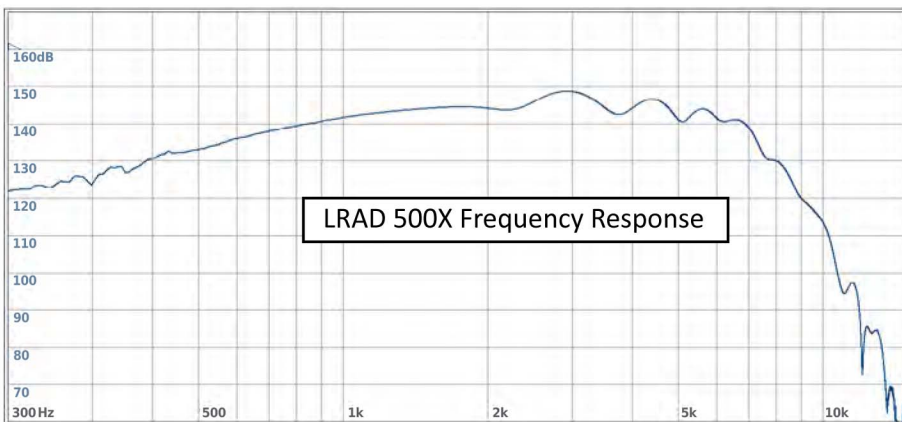
MIL-STD-1474D⁶

ELECTROMAGNETIC COMPATIBILITY (EMC)

FCC Part 15 class B radiated emissions, CE, MIL-STD-461E⁷

ORDERING INFORMATION

Integrated Electronic System - Grey	LRAD-500X-G
Integrated Electronic System - Tan	LRAD-500X-T-SYS
Remote Amplifier System - with stainless steel connectors - Grey	LRAD-500X-G/SS-SYS



Options & Accessories

LRAD 500X systems can be integrated with a variety of accessories for custom security solutions.

MP3 PLAYER / CONTROL MODULE



All LRAD 500X systems come standard with a ruggedized MP3 player or Control Module. Both the MP3 player and control module can be used to play up to 2GB of pre-recorded messages and warning tones. The large control buttons are designed to allow easy operation with gloves or bulky protective gear.



LRAD-500X-RE systems come with a control module which can be operated from up to 30 metres away providing all the controls necessary to operate the system.



MICROPHONE

The Shure Model 577B Microphone is a handheld dynamic microphone designed for communications that require highly intelligible, low noise output. Included.



MAXA BEAM

The Maxa Beam searchlight delivers 12 million candlepower in a lightweight, mounted unit. Using a high efficiency 75 Watt Xenon short arc lamp with over 500 hours of life, this searchlight illuminates up to 3500 metres away. Optional.

Additional Accessories

AUXILIARY CONNECTOR

Auxiliary cable to connect any LRAD system to a Phraselator, iPod or any other MP3 device with a 3.5mm audio output. Optional.

MOUNTING OPTIONS

Tripod - The rugged aluminium tripod is easily transported and quickly set up for rapid deployment.

Ship Rail Mount - Constructed of 316 stainless steel for durability in harsh marine environments, the ship rail mount can be attached to a horizontal or vertical rail.

GP Mount - Mounts to an Objective Gunner Protection Kit (OGPK) for vehicle mounted operations.

Vehicle Mount - Attaches to a standard 51mm trailer hitch.

¹Max range of 650 metres over 88dB of background noise. 6+ dB above background noise is based on field trials conducted by independent sources.

²Tested by U.S. Army following MIL-STD-810G, MIL-STD-167-1A & MIL-S-901D.

³Weight without accessories.

⁴Typical Power with warning tone.

⁵Normal power consumption with voice content, sound projection is wide and voice boost is off.

⁶MIL-STD-1474D standard establishes acoustical noise limits and prescribes testing requirements and measurement techniques for determining conformance to the noise limits specified therein.

⁷Requirements for the control of electromagnetic interference characteristics of subsystems and equipment.