



ORDERING INFORMATION

LRAD-500X-RE LRAD 500X-RE remote electronics long range communications system

INCLUDED ACCESSORIES

Control Module	Remote MP3 control module with 2GB onboard storage memory
Record on the Fly Mic	Microphone with record and playback feature for immediate playback
USB Cable	USB cable for downloading files to the MP3 player
Soft Cover	Protective soft cover
Tripod	Rugged aluminum tripod is easily transported and quickly sets up for rapid deployment, with carrying bag
MP3 Auxiliary Cable	Auxiliary audio cable for connecting to any audio device with a headphone jack
Normalizer Software	Audio Normalizer software for creating audio recordings on a PC

OPTIONAL ACCESSORIES

Wireless Kit	Wireless operation of LRAD systems at ranges up to 300 meters, 3.5 mm phone jack connects to a standard MP3 audio device (UHF, US only), lightweight hyper-cardioid headset microphone included
Maxabeam Kit	12 million candlepower in a lightweight, mounted searchlight, illuminates targets up to 3,500 meters away
Power Supply Module	External AC to DC power supply, 100-220VAC to 28VDC
Power Pack	Portable power pack with internal battery, charger, 24VDC, 21AH
GPK Mount	Mounts to Objective Gunner Protection Kit (OGPK) for vehicle mounted operations
Hitch Mount	Vehicle Mount attaches to standard 2" trailer hitch receiver
Ship Rail Mount	Stainless steel rail mount
Hard Case	Watertight and dust proof rugged enclosure for storage and transport

DIRECTIONALITY, POWER & RANGE

- › Powerful, intelligible communication up to 2,000 meters
- › Safely communicate beyond stand-off distances to determine intent
- › Variable beam width for extended coverage
- › Clear, long-range directional communication
- › Creates instant acoustic standoff perimeter

FEATURES

- › Rugged military tested construction
- › Low power requirements
- › All-weather use
- › Scalable, lightweight & portable
- › Simple to operate - Increased coverage with single operator
- › Safe alternative to non-lethal deterrent options

MARKETS SERVED

- › Law Enforcement
- › Defense
- › Commercial Security
- › Critical Infrastructure Security
- › Maritime
- › Homeland Security
- › CBRNE Incident Management
- › Port & Border Security
- › Emergency Warning
- › Mass Communication
- › Wildlife Preservation & Control

COMPACT FOR FIXED INSTALLATIONS & SMALL / MEDIUM-SIZED VEHICLES & VESSELS

The LRAD 500X is compact, lightweight and designed for applications ranging from fixed security installations to small/medium-sized vehicles and vessels. It can be easily transported to provide security and defense personnel a highly effective communication, hailing and warning capability.

The LRAD 500X has been selected as the U.S. Navy and U.S. Army's AHD (acoustic hailing device) for small vessels and vehicles. LRAD 500X operators have the capability to issue clear, authoritative verbal commands, followed with powerful deterrent tones to modify behavior, enhance response capabilities and provide more time to scale the use of force if required. The extended frequency range of the LRAD 500X ensures voice commands will be clearly heard and understood.

ACOUSTIC PERFORMANCE

Maximum Continuous Output	149dB SPL @ 1 meter, A-weighted
Sound Projection	+/- 15° at 1 kHz/-3dB
Communications Range	Highly intelligible voice messages over distances up to 2,000 meters; max range of 650 meters over 88 dB of background noise. 6+ dB above background noise is based on field trials conducted by independent sources.

ENVIRONMENTAL PERFORMANCE¹

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
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
Rain	MIL-STD-810G, Method 506.5, Procedure I, Blowing rain
Salt Fog	MIL-STD-810G, Method 509.5
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)

¹Tested by National Technical Systems (NTS) following MIL-STD-810G, MIL-STD-167-1A & MIL-S-901D.

MECHANICAL

Dimensions	25" W x 25" H x 12" D (63.5cm x 63.5cm x 30.5cm)
Weight	44 lbs. without accessories (19.96kg)
Construction	Molded cross-linked polyethylene, 6061 Aluminum, Stainless Steel connectors available as an option.

ELECTRICAL REQUIREMENTS²

Power Consumption	Typical Power consumption 265 Watts (With tone) Normal power consumption 60 Watts (With voice content)
Power Input	12 - 28VDC

²Typical Power with warning tone. Normal power consumption with voice content, sound projection is wide and variable.



SAFETY³

MIL-STD-1474D

³MIL-STD-1474D standard establishes acoustical noise limits and prescribes testing requirements and measurement techniques for determining conformance to the noise limits specified therein.

ELECTROMAGNETIC COMPATIBILITY (EMC)⁴

FCC Part 15 class A radiated emissions, CE

⁴Requirements for the control of electromagnetic interference characteristics of subsystems and equipment.