



DIRECTIONALITY, POWER & RANGE

- › Powerful, intelligible communication up to 600 meters
- › Focused, directional sound pattern for targeted communication
- › Safely communicate beyond standoff distances to determine intent
- › Create instant acoustic standoff perimeter
- › Communications can be directed into buildings & vehicles to deliver clear instructions

FEATURES

- › 8-hour rechargeable battery
- › Operate easily with gloves or MOPP gear
- › Optional power sources
- › Simple operator interface
- › Water-resistant

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

ORDERING INFORMATION

LRAD-100X-BLK* <i>*Base system</i>	LRAD 100X battery powered portable long range communications system
LRAD-100X-BLK-MAG	LRAD 100X system includes magnetic base and accompanying mounting yoke to secure the LRAD system to metallic surfaces such as a vehicle roof
100X-TRIPOD-SYS	LRAD 100X system including tripod, stud mount and nylon storage bag

INCLUDED ACCESSORIES

MP3 Player	2GB MP3 player plays up to 2GB of pre-recorded messages and tones
Record on the Fly Mic	Microphone with record and playback feature for immediate playback
MP3 Auxiliary Cable	Allows connection to any audio device with a headphone jack
USB Cable	USB cable for downloading files to the MP3 player
Li-Fe-PO4 Battery	8-Hour Lithium Iron Phosphate rechargeable battery
Battery Charger	AC powered battery charger with LED battery charge status display
Hard Case	Watertight and dust proof rugged enclosure for storage and transport

OPTIONAL ACCESSORIES

Wireless Kit	Wireless operation of LRAD systems at ranges up to 300 meters, 35 mm phone jack connects to a standard MP3 audio device (UHF, US only) Lightweight hyper-cardioid headset microphone is included
AC Power Supply	Allows power by a standard AC source in place of the battery
Cigarette lighter/plug cable	Cigarette lighter/plug cable powers LRAD through 12 VDC cigarette lighter
Tripod Kit	Tripod, stud mount, yoke and nylon storage bag
Stud Kit	Weldment Stud Kit
Table Mount Kit	Fixed mount for a flat surface
Tactical Pack	Rugged backpack for operation of the LRAD 100X within the pack and on the move
Front Carry Pack	Front carry pack for operation of the LRAD 100X within the pack and on the move

SELF-CONTAINED, HAND-HELD, PORTABLE COMMUNICATIONS

The LRAD 100X is a self-contained, hand-held, portable communications device for on-scene and tactical communications.

At 20-30 decibels (dB) louder than competing megaphones, the 100X is four to six times louder than systems of comparable size and weight. As a portable communication system, it overcomes the background noise of vehicles, vessels, sirens and boisterous crowds to ensure each message is clearly heard and understood.

Optimized driver and wave-guide technology ensure clear and loud communication so every syllable is understood. The warning tone provides a safe alternative to other non-lethal solutions, modifying behavior and increasing response time to scale force escalation.

ACOUSTIC PERFORMANCE

Maximum Continuous Output	137dB SPL @ 1 meter, A-weighted
Sound Projection	+/- 15° at 1 kHz/-3dB
Communications Range	Highly intelligible voice messages over distances up to 600 meters; max range of 250 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	14" W x 14" H x 6.5" D (35.6 x 35.6 x 16.5 cm)
Weight	15 lbs.(6.8 kg) with battery, accessories and cables
Construction	Injection molded impact resistant polymer, 6061 Aluminum

ELECTRICAL REQUIREMENTS²

Power Consumption	Typical Power consumption 85 Watts (With tone) Normal power consumption 20 Watts (With voice content)
Power Input	10.8 to 16.8 VDC, Included rechargeable 13.2VDC Li-Fe-PO battery for up to 2 hours of continuous operation at maximum volume on a full charge.

²Battery life up to 2 hours of continuous operation at maximum tone on a full charge. Adapters available for auto cigarette lighter and for 2590 rechargeable military battery.

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