

PRODUCT SHEET

SYSTEM COMPONENTS

LRAD 100X can be integrated with a variety of accessories for custom security solutions



MP3 PLAYER

LRAD Corporation's hardened, ruggedized MP3 player comes standard with LRAD 100X and is used to play up to 1GB of pre-recorded messages and warning tones.



MICROPHONE

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



LI-FE-PO4 BATTERY

The Lithium Iron Phosphate rechargeable battery provides up to up to 8 hours of operation at 60% duty cycle and 2 hours continuous max deterrent tone.

THE LRAD-X™ ADVANTAGE:

LOUD, LONG-RANGE COMMUNICATION

- ❑ CLEAR COMMUNICATION AT UP TO 600 METERS
- ❑ 136DB AT 1 METER MAXIMUM CONTINUOUS OUTPUT
- ❑ OVERCOME 88DB OF BACKGROUND NOISE AT 250 METERS
- ❑ REDUCES THE RISK OF EXPOSING NEARBY PERSONNEL TO EXCESSIVE AUDIO LEVELS

DIRECTIONAL SOUND

- ❑ 30 DEGREE PRIMARY BEAM
- ❑ COMMUNICATE WHERE YOU NEED TO
- ❑ AVOID DISTORTION FROM REFLECTED SOUNDS

EASY TO USE

- ❑ SIMPLE, FLEXIBLE CONTROLS
- ❑ HANDHELD OR SELF-STANDING
- ❑ COMPACT AND PORTABLE
- ❑ MICROPHONE AND MP3 INTERFACE

RUGGED

- ❑ WATERPROOF
- ❑ HIGH IMPACT POLYMER CONSTRUCTION
- ❑ LIGHT WEIGHT - 15 LBS. (6.8 KG.)



STRONG, LOUD AND CLEAR WITH LRAD 100X

LRAD 100X is a self contained, handheld, portable loud hailer that outperforms megaphones and most permanent public address systems. LRAD is an easily transportable communication tool that overcomes the background noise of vehicles, vessels, sirens, and boisterous crowds to ensure the message is clearly heard and understood.

LRAD 100X is 10-21 decibels (dB) louder than the most competitive megaphones. Systems of comparable size and power do not match the intensity of LRAD 100X, which is four to six times louder. Optimized driver and wave-guide design ensures clear and loud voice communication so every syllable is understood. The warning tone provides a non-lethal deterrent, shapes behavior, and supports intent determination while preserving time for force escalation.

This unmatched acoustic performance comes in a rugged package that can be operated in driving rain. Interfaces include a standard microphone as well as a rugged media player designed for easy operation in demanding environments.

Maximum power in a small package - The LRAD 100X is the world's best solution for on-scene and tactical communications.



ACOUSTIC PERFORMANCE

Maximum Continuous Output	136 dB SPL at 1 meter
Beam Width	+/- 15° at 2.5 kHz/-3dB
Frequency Range	See frequency response curve below
Communications Range	Highly intelligible speech transmissions over 600 meters; *Max range of 250 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 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)
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

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 plastic; 6061 Aluminum

ELECTRICAL REQUIREMENTS

Power Consumption	Normal power consumption 50 Watts Peak power consumption 75 Watts
Power Input	10.8 to 24VDC; Included rechargeable 13.4VDC Li-Fe-PO battery for up to 2 hours of continuous operation at maximum volume on a full charge. Adapters available for auto cigarette lighter and for 2590 rechargeable military battery.

SAFETY

MIL-STD-1474D

COLORS

Black 	Model No. LRAD-100X-BLK
Gray 	Model No. LRAD-100X-GRY

NSN

5830015784373

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

