



## PRODUCT INFORMATION

100X-BLK-MAG

LRAD 100X MAG high strength system includes magnetic base with 600 lbs. of holding and 120 lbs. of shear force\*, and accompanying mounting yoke to secure the LRAD to metallic surfaces, including vehicle roofs

## INCLUDED ACCESSORIES

MP3 Player	MP3 player records/plays up to 8GB of 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, dust proof, rugged enclosure for storage and transport

## OPTIONAL ACCESSORIES

HD Action Camera	During LRAD operation, record High Definition, date/time stamped video and audio with this compact, rugged digital camera
AC Power Supply	Can be powered 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
Stud Mount	Mounting yoke kit for LRAD-100X, compatible for LRAD tripods (tripod not included)
Stud Kit	Stud weldment kit
Medium-Duty Tripod Kit	Includes reusable hard case
Table Mount Kit	Fixed mount for flat surfaces
Tactical Pack	Rugged backpack for operation of the LRAD 100X within the pack or on the move
Front Carry Pack	For mobile or stationary operation of the LRAD 100X

## DIRECTIONALITY, POWER, RANGE & INTELLIGIBILITY

- › Powerful, intelligible voice communications up to 600 meters
- › Focused, directional broadcasts for targeted communication
- › Safely communicate beyond standoff distances
- › Create instant acoustic standoff perimeter
- › Deliver clearly heard and understood communications into buildings & vehicles

## 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 & Border Security
- › Fire Rescue & Incident Management
- › Emergency Warning
- › Mass Notification
- › Wildlife Preservation & Asset Protection

\*Combined force and shear ratings of mag mount for 1/4" unfinished steel. Painted surfaces and thinner metals will have less holding and shear force.

# LRAD 100X BLK MAG

Long Range Communication - High Strength Mag Mount

## SELF-CONTAINED, PORTABLE COMMUNICATION SYSTEM

The LRAD 100X MAG System consists of an LRAD 100X, a mount with four high strength magnets that clamp to, and unclamp from, magnetic surfaces with a turn of a knob, an AC-powered battery charger, an MP3 player with an all-weather record-on-the-fly mic, a watertight, dust proof hard case, and other accessories.

With unparalleled vocal clarity and up to 30db louder than bullhorns, megaphones, and vehicle P.A. systems, the LRAD 100X is also four to six times louder than other acoustic hailers of comparable size and weight. LRAD's optimized driver and waveguide technology ensures every message is clearly broadcast, heard and understood, even above engine, crowd, siren, and background noise.

The LRAD warning tone commands attention to the voice messages that follow and provides a safer alternative to non-lethal and kinetic measures for resolving uncertain situations and saving lives.



## ACOUSTIC PERFORMANCE

Maximum Peak Output	140dB SPL @ 1 meter, C-weighted
Maximum Continuous Output	137db SPL @ 1 meter, A-weighted
Sound Projection	+/- 15° @ 1kHz/-3dB
Communication Ranges	Maximum range up to 600 meters in ideal conditions. Operational range up to 250 meters over 88dB of background noise. Ranges based on continuous output.

## 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
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 516.6, Procedure I, (Functional shock)

## MECHANICAL

Dimensions	17"W x 21"H x 9"D (43 x 53x 23 cm)
Weight	22 lbs.(10 kg) with battery, accessories and cables
Construction	Injection molded, impact resistant polymer, 6061 Aluminum

## ELECTRICAL REQUIREMENTS<sup>1</sup>

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.

<sup>1</sup>BATTERY 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.

## SAFETY<sup>2</sup>

MIL-STD-1474D

<sup>2</sup>DESIGNED TO MEET MIL-STD-1474D STANDARD WHICH ESTABLISHES ACOUSTICAL NOISE LIMITS AND PRESCRIBES TESTING REQUIREMENTS AND MEASUREMENT TECHNIQUES FOR DETERMINING CONFORMANCE TO THE NOISE LIMITS SPECIFIED THEREIN.

## ELECTROMAGNETIC COMPATIBILITY (EMC)<sup>3</sup>

FCC Part 15 class A radiated emissions, CE

<sup>3</sup>REQUIREMENTS FOR THE CONTROL OF ELECTROMAGNETIC INTERFERENCE CHARACTERISTICS OF SUBSYSTEMS AND EQUIPMENT.

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