



# LRAD Defense Brochure

# The LRAD Advantage

LRAD adds new dimensions to voice broadcast and mass notification system

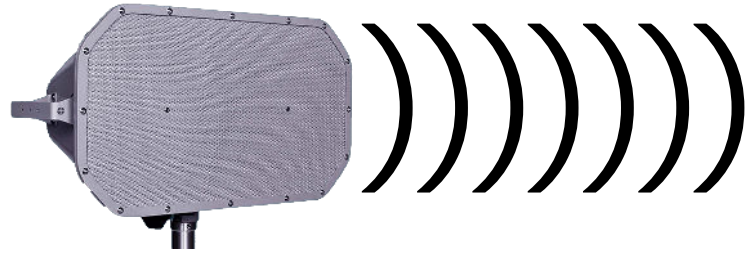
- Controlled broadcast dispersion
- Audible broadcasts feature industry-leading clarity and intelligibility
- 30° audible transmission ranges out to 3,500 meters
- 60° – 360° audible mass notification coverage over areas up to 14 km<sup>2</sup>

LRAD systems broadcast audible voice messages and warning tones with exceptional clarity over large distances to safely —

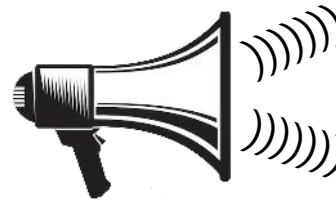
- Warn & Notify
- Direct & Command
- Establish Large Safety Zones
- Prevent Misunderstandings
- Determine Intent
- Resolve Uncertain Situations
- Alleviate The Use of Force
- Prevent Casualties & Save Lives



Essential  
Communication and  
EOF Systems  
for Military Forces



Focused, Clear Sound  
Long Distance Communication  
Exceptional Voice Quality



Sound Diffuses  
Limited Range  
Poor Voice Quality

## Advanced Technology

With its full line of voice broadcast and mass notification systems, LRAD provides advanced technology solutions that are rugged, reliable and easy to operate.

## Superior Intelligibility

Safely optimized to the primary range of human hearing, LRAD systems broadcast voice messages with industry-leading vocal intelligibility. LRAD's advanced driver and waveguide technology ensures voice and warning siren broadcasts cut through background noise and are clearly heard and understood.

## Clear & Unambiguous Communication

By maintaining a smooth frequency response, LRAD eliminates the audio variability inherent in other voice broadcast systems by preventing fading and producing clear, unambiguous communication across all broadcast frequencies.

**LRAD Provides Essential Communication and EOF Capabilities for the Army, National Guard, Marines, Air Force, Navy, and Coast Guard**

LRAD systems are the most thoroughly tested acoustic hailing devices available having passed 40 separate U.S. government tests, including MIL-STD testing for heat, humidity, and shock.





Today's military forces are required to support the full spectrum of missions. From combat and counterinsurgency to disaster response and humanitarian assistance. Regardless of the assigned mission, clear communication and scalable EOF are critical to mission success.

From close range to 3,500 meters, LRAD systems broadcast attention-commanding voice messages and warning tones with exceptional clarity to communicate and safely initiate and scale EOF.







## Ground and Maneuver Forces



## Checkpoints / Exclusion Zones



## Humanitarian Missions / Disaster Response



## Crowd Communication / Incident Management



## Search and Rescue Operations



## Firing Ranges / Mock Munitions / PSYOPS



## Air-to-Ground Communication



## Mass Notification / Public Address





## LRAD 100X

Self-contained, hand-held device for on-scene and tactical communication

Maximum Range	600 m
Peak dB	140
Continuous dB	137
Weight	6.8 kg

The LRAD 100X is 20 - 30 decibels louder than bullhorns and vehicle P.A. systems and up to 6X louder than systems of comparable size and weight. Live or recorded audible voice broadcasts are clearly heard and understood over background noise, and inside vehicles and buildings.

- » Powerful, intelligible communication out to 600m
- » Focused, directional sound pattern for targeted communication
- » Create instant acoustic standoff perimeter
- » 8-hour rechargeable battery
- » Simple operator interface
- » Water-resistant



## LRAD 100X MAG-HS SYS

Remotely controlled, rapidly deployable, self-contained, on-scene and tactical communication

Maximum Range	2,000 ft / 600 m
Peak dB	140
Continuous dB	137
Weight	22 lbs / 10 kg

With wireless control out to 300 meters and a high strength, easy on/off magnetic mount system, the LRAD 100X MAG-HS System is designed for evolving tactical situations. Up to 6X louder than systems of comparable size and weight.

- » Focused, directional sound pattern for targeted communication with unparalleled clarity
- » Create instant acoustic standoff perimeter
- » High-strength neodymium mount system
- » Wireless system batteries operate up to 8 hours
- » 8-hour rechargeable battery
- » Simple operator interface
- » Water-resistant
- » Includes shock-resistant transport case for all components



MAGNET BASE SYSTEM PROVIDES 600 LBS. OF HOLDING AND 120 LBS. OF SHEAR FORCE; ACCOMPANYING MOUNTING YOKE SECURES TO METALLIC SURFACES INCLUDING VEHICLE ROOFS.

## 60XL MOBILE RANGE SYSTEM

Available in either one or two-horn configurations to provide several hours of continuous mass notification in any location

Max. SPL @ 1 meter	139 dBA
80 dB Coverage Range	900 m / 3000 ft
Weight	35 lbs/ 15.7 kg

The 60XL Mobile Range System delivers clear voice communications over large areas from a small, portable form factor. Quick and easy to set up and take down, the kit is configurable to meet local incident management and mass notification needs.

- » Fully self-contained mass notification system
- » Industry-leading voice intelligibility
- » Rugged construction / All weather use
- » Lightweight and easy to operate
- » Portable and versatile
- » Live or recorded voice messages
- » Self-contained battery/amplifier pack powers several hours of continuous voice broadcast
- » Pelican™ protective cases included







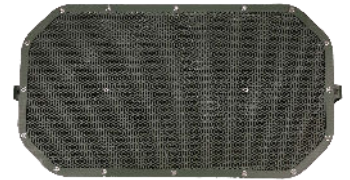
## LRAD 450XL-RT

The industry's loudest, most intelligible AHD for its size and weight

Maximum Range	5,580 ft / 1,700 m
Peak dB	150
Continuous dB	145
Weight	35.5 lbs / 16.1 kg

The U.S. Army's AHD of choice, the low profile, lightweight LRAD 450XL RT is powered by LRAD XL driver technology. The LRAD 450XL is designed for temporary or fixed mounting on tripods, small vessels, vehicles, helicopters and remote weapon stations.

- » Powerful, intelligible communication out to 1,700m
- » Local and Remote operation
- » Safely communicate beyond standoff distances to determine intent
- » Clear, long-range directional communication
- » All-weather use
- » Creates instant acoustic standoff perimeter
- » Simple operator interface, lightweight and portable



## LRAD 500X-RT

Compact long range communication system for mid-sized vehicles, vessels, helicopters & fixed installations

Maximum Range	2,000 m
Peak dB	154
Continuous dB	149
Weight	44 lbs / 20 kg

Designed for mid-sized vessels and vehicles and easily transported, the LRAD 500X RT provides highly effective communication and scalable EOF capabilities for public safety, defense, maritime and homeland security applications.

- » Powerful, intelligible communication out to 2,000 meters
- » Local and Remote operation
- » Creates instant acoustic standoff perimeter
- » Rugged, military tested construction
- » All-weather use
- » Lightweight and portable
- » Low power requirements: 60W w/voice, 260W w/ tone
- » Simple operator interface



## LRAD 500X-MMT

Helicopter mounted, air-to-ground communication system featuring rugged mount with full pan and tilt range of motion

Maximum Range	2,000 m
Peak dB	154
Continuous dB	149
Weight	180 lbs / 68 kg

Self-contained, self-powered, temporarily mounted and quickly removed following mission completion, the LRAD 500X-MMT featured a rechargeable power pack for operation inside most helicopters. The 12-jaw cargo tie down quick disconnect adapters accommodate a variety of helicopter cabin floor mounting options.

- » Powerful, intelligible communication out to 2,000m
- » Quickly installed and removed from helicopter
- » Self-powered for 6+ hours of continuous operation when fully charged
- » Supplemental type certificates not required
- » Simple operator interface





## LRAD ACCESSORIES

# LRAD Wireless System

REMOTE LRAD OPERATION OUT TO 200 METERS



- Wireless control for LRAD 100X, LRAD 450XL, RT and all manually operated systems
- Runs up to 16 LRAD systems simultaneously
- UHF synthesized frequencies for up to 188 frequencies
- Operates up to 8 hours on two AA alkaline batteries
- Integrated push to talk (PTT) button and large volume control knob allow for simple one-handed operation

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## LRAD Portable 24V Power Pack

INSTANT POWER ANYTIME, ANYWHERE



- Powers LRAD 450XL and LRAD 500X
- Powered by leak-proof Absorbed Glass Mat (AGM) batteries
- Marine grade, electronically controlled battery charger
- Integrated battery level display
- 21 amp hour / 24 VDC
- Up to 10 hours of continuous operation



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## LRAD Tripod



- Mounts LRAD 100X, LRAD 450XL-RT, LRAD 500X-RT, LRAD 1000Xi, 360XL-MID MOBILE SYSTEM
- Quickly mount and dismount LRAD systems
- Rugged, medium duty construction
- Optional wheeled hard case for storage and transport



**The Global Leader in  
Long Range Communication  
& Scalable EOF System**

## **360XT-MIL**

### **FULLY SELF-CONTAINED MOBILE MASS NOTIFICATION SYSTEM**

Industry-leading voice clarity and  
communication area coverage.

Max SPL @ 1 meter - 135 dBA

80 dB Coverage Range - 800 m / 2600 ft

Weight - 1996 kg / 4400 lbs



## **Genasys - The Leader in Protective Communications**

Genasys is the global leader in Protective Communications systems and solutions that are designed around one premise: ensuring organizations and public safety agencies are "Ready when it matters™." Protecting people and saving lives for over 40 years, Genasys covers more than 155 Million people in all 50 states, and in over 100 countries worldwide.

For more information, visit [genasys.com](http://genasys.com).