LRAD®

The Global Leader in Long Range Voice Broadcast Systems
Advanced Mass Notification and Location Based Mobile Alerts

Powerful, Intelligible Communication

LRAD.com
The LRAD Advantage

LRAD adds new dimensions to voice broadcast and mass notification systems

- Controlled broadcast dispersion
- Audible broadcasts feature industry-leading clarity and intelligibility
- 30° audible transmission ranges out to 5,500 meters
- Customizable 60°–360° audible mass notification coverage over areas up to 14 sq. km.

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
- Save lives

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.

Worldwide Market Applications
LRAD systems are in service in more than 70 countries around the world in diverse applications including:

- Emergency Warning & Mass Notification
- Defense
- Law Enforcement & Public Safety
- Homeland & Border Security
- Critical Infrastructure Protection
- Maritime Safety & Security
- Fire Rescue Communication
- Wildlife Preservation
**LRAD Systems**

**LRAD 100X**

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

- **Maximum Range**: 2,000 ft / 600 m
- **Peak dB**: 140
- **Continuous dB**: 137
- **Weight**: 15 lbs / 6.8 kg

- 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 300X-RE**

Low-profile, long range communication for small vessels and vehicles.

- **Maximum Range**: 3,300 ft / 1,000 m
- **Peak dB**: 150
- **Continuous dB**: 143
- **Weight**: 25 lbs / 11.3 kg

- Powerful, intelligible communication out to 1,000m
- Voice Boost for extended coverage
- Creates instant acoustic standoff perimeter
- Rugged, military tested construction
- Low power requirements: 50W w/voice, 150W w/tone
- All-weather use
- Lightweight and portable
- Simple operator interface

**LRAD 450XL**

Low profile, lightweight and designed for temporary or fixed mounting on tripods, small vessels, vehicles, helicopters and remote weapon stations.

- **Maximum Range**: 5,580 ft / 1,700 m
- **Peak dB**: 150
- **Continuous dB**: 146
- **Weight**: 37 lbs / 16.6 kg

- Powerful, intelligible communication out to 1,700m
- Voice Boost for extended coverage
- 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 1000Xi**

Designed for deployment on larger vehicles and vessels, the LRAD 1000Xi is a powerful capability for defense, homeland, maritime and critical infrastructure security.

- **Maximum Range**: 9,800 ft / 3,000 m
- **Peak dB**: 159
- **Continuous dB**: 153
- **Weight**: 87 lbs / 39.4 kg

- Powerful, intelligible communication out to 3,000m
- Voice Boost for extended coverage
- Creates instant acoustic standoff perimeter
- Low power requirements: 190W w/voice, 720W w/tone
- Rugged, military tested construction
- Simple operator interface
- All-weather use
- Highly effective, scalable EOD, safer than non-kinetic deterrent options

**LRAD 500X-RE**

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

- **Maximum Range**: 6,560 ft / 2,000 m
- **Peak dB**: 154
- **Continuous dB**: 149
- **Weight**: 44 lbs / 20 kg

- Powerful, intelligible communication out to 2,000 meters
- Voice Boost for extended coverage
- 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 1950XL**

Utilizing LRAD’s patented XL driver technology, which generates higher audio output in a smaller, lighter form factor, the LRAD 1950XL broadcasts audible hails, warnings and voice communications far beyond normal standoff distances, and safely initiates and scales EOD.

- **Maximum Range**: 16,400 ft / 5,000 m
- **Peak dB**: 160
- **Continuous dB**: 155
- **Weight**: 90 lbs / 41 kg

- Powerful, intelligible communication out to 5,000m
- Safely communicate beyond extended standoff distances to determine and alter intent
- Clear, long-range, directional communication
- Establish instant acoustic standoff perimeter
- Rugged military tested construction
- Simple operator interface

**More Info**
**LRAD Systems**

**LRAD 500RX**
- **Integrated surveillance, communication, and remote first response security system**
  - Controlled across a TCP/IP network, the LRAD 500RX enables security personnel to remotely respond to potential threats with this fully functional, unmanned perimeter security solution.
  - **Powerful, intelligible communication and scalable EOF out to 2,000 meters**
  - **Easy to use - increased coverage with single operator**
  - **Clear, long-range directional communication**
  - Safer alternative to non-lethal solutions
  - **Low power requirements**
  - When integrated with radar, creates a fully functional, automated perimeter presence

| Weight | 175 lbs / 80 kg |
| Weight | 180 lbs / 81.6 kg |
| Weight | 150 lbs / 68 kg |

**LRAD 950RXL**
- **Extended range voice communication to monitor and secure borders and protect vessels, coastal properties, border, port and critical infrastructure**
  - Utilizing LRAD Corporation’s proprietary full pan-and-tilt drive and XL driver technology, the LRAD 950RXL reduces manpower, false alarms and deadly incidents while providing a highly effective and cost efficient, remote first response security solution.
  - **Powerful, intelligible communication and scalable EOF out to 3,000 meters**
  - Remotely control all functions through TCP/IP connection
  - **All-weather use**
  - **Rugged military tested construction**
  - **Low power requirements**
  - When integrated with radar, creates a fully functional, automated perimeter presence

| Weight | 175 lbs / 80 kg |
| Weight | 175 lbs / 80 kg |

**LRAD 1000RX**
- **Integrated surveillance and response for vessels, coastal, border, port & critical infrastructure security, with powerful, intelligible voice communications and scalable EOF out to 3,000 meters.**
  - **Safely communicate beyond standoff distances to determine intent**
  - **Clear, long-range directional communication**
  - Create instant acoustic standoff perimeter
  - Remotely control all functions through TCP/IP connection
  - **Respond to threats from a safe environment**
  - **Low power requirements**
  - **All-weather use**

| Weight | 340 lbs / 154 kg |
| Weight | 340 lbs / 154 kg |
| Weight | 330 lbs / 150 lbs |

**LRAD SoundShield®**
- **Broadcast powerful warning tones and highly intelligible voice commands in a 360° radius out to 100 meters**
  - **Safe, non-lethal, non-kinetic warning tone creates instant acoustic standoff perimeter around any vehicle**
  - Communicate out to 100 meters from the safety of a vehicle’s interior
  - Simple to operate user interface
  - Two 4-Hour rechargeable batteries
  - **Low power requirements**
  - **All-weather use**

**LRAD 500X-MMT**
- **Helicopter mounted, air-to-ground communication system featuring rugged mount with full pan and tilt range of motion**
  - **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

| Weight | 150 lbs / 68 kg |
| Weight | 150 lbs / 68 kg |

**LRAD 100X MAG-HS Kit**
- **Remote controlled, rapidly deployable, self-contained, on-scene and tactical communication**
  - **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

**LRAD Mobile SoundShield®**
- **Using optimized driver and waveguide technology, the LRAD Mobile SoundShield surrounds an equipped vehicle with sonic security and an attention-commanding communication capability when needed.**
  - **Safe, non-lethal, non-kinetic warning tone creates instant acoustic standoff perimeter around any vehicle**
  - Communicate out to 100 meters from the safety of a vehicle’s interior
  - Simple to operate user interface
  - Two 8-hour rechargeable batteries
  - **Low power requirements**
  - **All-weather use**

**LRAD 12X**
- **Self-contained, self-powered, temporarily mounted and quickly removed following mission completion, the LRAD 12X-MAG-HS Kit featured a rechargeable power pack for operation inside most helicopters.**
  - **12-Jaw Cargo Tie Down Quick Disconnect Adapters accommodate a variety of helicopter cabin floor mounting options.**

| Weight | 150 lbs / 68 kg |
| Weight | 150 lbs / 68 kg |
**LRAD Systems**

**LRAD 360XL**

- Features LRAD's XL driver technology, which provides more audio output and broadcast range in smaller, lighter system configurations.
- Delivers exceptionally clear voice messages and warning siren with uniform 360° coverage, the LRAD 360XL delivers greater audio output and broadcast range than the LRAD 360X.

**Features**
- Industry-leading vocal clarity and speech intelligibility
- Powerful, highly intelligible voice communications over 3.5 km from a single installation
- Clearly communicate vital information over large areas
- Low power requirements for extended power outages
- Rugged, space saving 1RU amplifier modules
- Power options include battery, generator or solar
- Operable via satellite link with LRAD Command & Control Cabinet

**Specifications**
- Max. SPL @ 1 meter: 135 dBA
- 80 dB Coverage Range: 2,300 ft / 700m
- Weight: 110 lbs / 49.9 kg

**Coverage Range**
- 1,500 ft / 450m

**Max. SPL @ 1 meter**
- 80 dB

**Weight**
- 110 lbs / 49.9 kg

**LRAD 360XL-MID**

- Lightweight, portable mass notification and emergency warning system mounted in a rugged, compact housing.
- Ideal for urban areas, small campus and industrial sites, the LRAD 360XL-MID provides mobile or permanently installed mass notification using LRAD’s XL driver technology to deliver emergency broadcasts with LRAD’s unsurpassed clarity and range.

**Features**
- Industry-leading vocal clarity and speech intelligibility
- Powerful, highly intelligible voice communications over 2.0 km from a single installation
- Clearly communicate vital information over large areas
- Lightweight, compact form factor does not require heavy equipment for installation
- Low power consumption for extended mass notification coverage during power outages
- Can be used with either 1RU amplifier or NEMA cabinet

**Specifications**
- Max. SPL @ 1 meter: 127 dBA
- 80 dB Coverage Range: 1,500 ft / 450m
- Weight: 80 lbs / 36.2 kg

**LRAD 360X**

- Built to withstand up to 200 mph winds, the LRAD 360X can be mounted on buildings, poles or existing infrastructure to provide 5.3 km of mass notification coverage using multiple emitters.

**Features**
- Industry-leading vocal clarity and speech intelligibility
- Powerful, highly intelligible voice communications over 5.3 km
- Clearly communicate vital information over large areas
- Low power requirements for extended power outages
- Rugged, space saving 1RU amplifier modules
- Industry-leading voice clarity and intelligibility
- Power options include battery, generator and solar
- TCP/IP network control interface available for remote activation and control of multiple installations

**Specifications**
- Max. SPL @ 1 meter: 131 dBA
- 80 dB Coverage Range: 1,850 ft / 560m
- Weight: 110 lbs / 49.9 kg

**LRAD SOUNDABER-X**

- Advanced Line Array Driver Technology for Superior Public Address and Mass Notification

**Features**
- Galvanized steel mount with elevation adjustment
- P.A. and emergency notification in one system
- Industry-best vocal clarity and intelligibility
- Operable via satellite link with LRAD Command & Control Cabinet

**Specifications**
- Max. SPL @ 1 meter: 142 dBA
- 80 dB Coverage Range: 3,600 ft / 1,100m
- Weight: 37 lbs / 17 kg

**LRAD DS-60XL**

- Configurable in a ring array to provide 60°–360° customizable communication coverage over 900 meter – 2.5 sq. km. areas. Incorporates LRAD’s award-winning vocal clarity in a smaller, lighter form factor.

**Features**
- Greater mass notification coverage from a single system
- Rugged, all-weather enclosure for permanent outdoor installation
- Galvanized steel mount with elevation adjustment
- All-weather electronics cabinet with integrated MP3 player, microphone, and network Streamer
- Available with 70 or 100V transformers for use with P.A.
- Mass notification and PA, in one system
- Unparalleled vocal clarity and intelligibility

**Specifications**
- Max. SPL @ 1 meter: 139 dBA
- 80 dB Coverage Range: 3,000 ft / 900m
- Weight: 20 lbs / 8.9 kg
Mass Notification Safety Alerts

**Reliable and Fast**
NEWS is a reliable, fast and easy-to-use solution for sending location-based warning alerts to affected populations. With NEWS, emergency agencies improve public safety by providing potentially lifesaving information to individuals in harm’s way.

**LOCATION-BASED NOTIFICATIONS — WARN POPULATIONS & SAVE LIVES**

**SMS AND CELL BROADCASTING NOTIFICATION SYSTEM**
- **Mobile phones** — most effective means for delivering emergency warnings to individuals.
- **Location-based** — targets messages to only affected populations and individuals.
- **Time sensitive** — ensures messages are received in time for individuals and populations to follow the emergency protocols provided.

**GEOSPATIAL CONTROL**
- Affected areas are quickly and easily selected via a geographical map interface.
- **NEWS** identifies the total number of mobile phones inside the selected area.
- Emergency agencies send messages to affected individuals and populations. **NEWS** SMS notifications are automatically refreshed to warn individuals entering an active emergency area.

**AUSTRALIA** has used NEWS to deliver more than 150 million SMS emergency alert messages with a 95% success rate

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Workforce Management

**Employee Management via Mobile Device**
HAZ is a low-cost and easy-to-use solution for planning tasks and managing workplace incidents. HAZ enables companies to reduce operational costs and increase employee productivity by monitoring activities in real time.

**ONLINE PLANNING, MONITORING AND REPORTING**
- **Internet Based** — provides real-time employee management, planning, and monitoring.
- **HAZ** application installed on employees’ mobile phones to enable real-time incident reporting, task progress, work forms, situational images and more.

**HAZ FEATURES**
- When workplace incidents occur or a security breach is detected, employees use HAZ to report it to management. Managers can quickly respond by deploying the necessary resources and re-assigning employees to the incident area.
- Images can be attached to HAZ reports to provide managers a remote view of work and incident areas.
- HAZ reports are accessible from any Internet-connected device and authorized user access.
- Easy and intuitive application
- Non-compliance and exception alerts
- Real-time incident alerts
- Pre-configured reports
- Format flexibility
**LRAD Accessories**

**LRAD Wireless System**
REMOTE LRAD OPERATION OUT TO 300 METERS

- Wireless control for LRAD 100X, LRAD 450XL, 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

**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

**Streamer**
REMOTE COMMUNICATION ON DEMAND

- Receives audio from an Ethernet network connection for playback through LRAD systems
- Connects to a TCP/IP network with DHCP or fixed IP address
- Included software allows prerecorded file playback, live microphone playback, volume control and operation of high frequency alter tone from a networked Windows computer.
- Streamer software works with any microphone connected to the PC's standard microphone input

**LRAD Tripod**

- Mounts LRAD 100X, LRAD 300X, LRAD 360XL-MID MOBILE KIT, LRAD 450XL, LRAD 500X, LRAD 1000Xi
- Quickly mount and dismount LRAD systems
- Rugged, medium duty construction
- Optional wheeled hard case for storage and transport

**LRAD Action Cam**
RECORD HD VIDEO AND AUDIO DURING LRAD OPERATION

- Mounts on LRAD 100X, LRAD 300X, LRAD 450XL, LRAD 500X, LRAD 1000Xi
- Rugged compact
- Audio and widescreen video capture
- Wide angle, focus free lens
- Date and time stamp
- Camera orientation detection
- Low lux, night mode
- Dual microphones significantly reduce wind noise

**High Strength Mag Mount**
MAG MOUNT HS, FOR LRAD 100X ACOUSTIC HAILING DEVICE

- Magnetic base with 600 lbs. (272 kg) of holding capacity
- 120 lbs. (54.5 kg) of sheer force
- Holds LRAD securely to vehicle roofs and other steel objects
- Incorporates powerful neodymium magnets for secure attachment
- Base features instant On/Off knobs for easy placement and removal
### LRAD Product Line

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<thead>
<tr>
<th>100X</th>
<th>300X-RE</th>
<th>450XL</th>
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<th>500X-MMT</th>
<th>1000Xi</th>
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### LRAD Product Line

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<th>360XL-MID Mobile Kit</th>
<th>DS-60X DS-60XL</th>
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<th>SoundSaber-X</th>
<th>360XT</th>
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LRAD

The Global Leader in Long Range Voice Broadcast Systems, Advanced Mass Notification and Location Based Mobile Alerts

LRAD 360XT
FULLY SELF-CONTAINED MOBILE MASS NOTIFICATION SYSTEM
FEATURING INDUSTRY-LEADING AREA COVERAGE AND VOCAL CLARITY

Max. SPL @ 1 meter | 135 dBA
80 dB Coverage Range | 2600 ft / 800m
Weight | 4400 lbs / 1996 kg

About LRAD
LRAD® systems are in service around the world in diverse applications including mass notification and public address, fire rescue, fixed and mobile defense deployments, maritime security, critical infrastructure and perimeter security, commercial security, border and port security, law enforcement and emergency responder communications, asset protection, and wildlife control and preservation.

For more information about the Company and its LRAD systems, please visit LRAD.com.

LRAD Systems are Deployed by 72 Countries Around the World.