



# 450XL-RT

## Midsized Acoustic Hailing Device with Remote Operation



Analog / Digital / Power Interface

### PRODUCT INFORMATION

450XL-RT (-BLK / -GRN / -GRY / -TAN) Remote electronics, long range communication system with dash mounted MP3 control module (available in black, green, gray or tan)

### INCLUDED ACCESSORIES

Control Module	Remote MP3 control module with more than 16GB onboard storage memory
Record-on-the-fly Mic	Noise canceling microphone with record and 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
Hearing Protection	Disposable hearing protection
Normalizer Software	Normalizer software for creating customized audio recordings on a PC
Tripod Adapter	Allows for mounting on optional tripod
Hard Case	Watertight, dust proof, rugged enclosure for storage and transport

### OPTIONAL ACCESSORIES

Wireless Kit	Wireless transmitter, receiver, and headset that allows remote use of LRAD systems over ranges up to 200 meters
HD Action Camera	During LRAD operation, record high definition, date/time stamped video and audio with this compact, rugged digital camera
Magnetic Mount Kit	Magnetic base and accompanying mounting yoke to secure the LRAD to metallic surfaces including vehicle roofs
Maxabeam Kit	12 million candlepower in a lightweight, mounted searchlight that illuminates targets up to 3,500 meters away
Power Supply Module	External AC to DC power supply, 100-220 VAC to 28 VDC
Power Pack	Portable power pack with internal battery, charger, 24 VDC, 21 AH
Hitch Mount	Vehicle Mount - attaches to standard trailer hitch receiver (2 in/5.08cm)
GPK Mount	Mounts to Objective Gunner Protection Kit (OGPK) for vehicle mounted operations
Ship Rail Mount	Stainless steel rail mount
Table Mount	4-bolt pattern steel mount for flat surfaces
Medium Duty Tripod	Rugged lightweight tripod with optional hard transport and storage case

### DIRECTIONALITY, POWER, & RANGE

- > Powerful, intelligible voice communication up to 1,700 meters
- > Focused, directional broadcasts for targeted communications
- > Communicate safely beyond standoff distances
- > Create instant acoustic standoff perimeter
- > Variable beam width for extended coverage

### FEATURES

- > Rugged, military tested construction
- > Low power requirements
- > All-weather use
- > Scalable, lightweight & portable
- > Built-in IP ethernet capability enables audio streaming over the network in remote operations, including UGVs, USVs and drones
- > Safer escalation of force (EOF) alternative than non-lethal and kinetic measures
- > HD camera (optional): attachable camera mount for recording video and audio during LRAD operation

### MARKETS SERVED

- > Law Enforcement
- > Defense
- > Commercial Security
- > Critical Infrastructure Protection
- > Maritime Safety
- > Homeland Security
- > Fire Rescue
- > Incident Management
- > Ports & Border Security
- > Emergency Warning
- > Mass Notification
- > Wildlife Preservation & Control



# 450XL-RT

## Midsized Acoustic Hailing Device with Remote Operation

### LOW PROFILE, LONG RANGE COMMUNICATION SYSTEM

The LRAD 450XL-RT utilizes technology developed and patented\* by Genasys to provide the audio output of larger acoustic hailing devices almost twice its size and weight, while delivering the same outstanding vocal clarity inherent in all LRAD systems.

LRAD 450XL-RT features include an automatic system health check with every startup to inform operators of any potential issues with the system's drivers or amplifier, and Digital Control Interface.

The 450XL-RT can be digitally controlled via an Ethernet network, making it ideal for remote or autonomous operations, including UGVs, USVs or UAVs, or in temporary or fixed installations where the LRAD control unit is located at a significant distance from the LRAD head unit.

Lightweight and designed for use on tripods or mounted on vessels, vehicles, and Common Remotely Operated Weapon Stations (CROWS), the LRAD 450XL-RT is a highly effective, long range communication and scalable EOF system in use around the world for public safety, law enforcement, maritime and defense applications.

\*U.S. Patent No. 9,693,148

### ACOUSTIC PERFORMANCE

Maximum Peak Output	150 dB SPL @ 1 meter, C-weighted
Maximum Continuous Output	145 dB SPL @ 1 meter, A-weighted
Sound Projection	+/- 15° @ 1 kHz / -3 dB
Communication Ranges	Maximum range up to 1,700 meters in ideal conditions. Operational range up to 500 meters over 88 dB of background noise. Ranges based on continuous output.

### ENVIRONMENTAL PERFORMANCE<sup>1</sup>

Cold/Hot Operating Temperature	MIL-STD-810G, Method 501.5 & 502.5, Procedure II, -33° to 60° C
Cold/Hot Storage Temperature	MIL-STD-810G, Method 501.5 & 502.5, Procedure I, -40° to 70° 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
Random Vibration	MIL-STD-810G, Method 514.6, Wheeled Vehicles
Shipboard Shock	MIL-S-901D, Shipboard Shock, Class I, Shock grade B, Type A shock test
SRS Shock	MIL-STD-810G, Method 516.6, Procedure I, Functional shock
Safety	MIL-STD-1474D

### MECHANICAL SPECIFICATIONS

Dimensions	14.5" H x 27" W x 12.1" D (36.8 cm x 68.6 cm x 30.7 cm)
Weight	35.5 lbs. (16.1 kg) without accessories
Construction	Molded low smoke composite, 6061 aluminum, 316 stainless hardware

### ELECTRICAL REQUIREMENTS

Power Consumption	Normal Power Consumption for Voice Broadcasts: 55 Watts Normal Power Consumption for Alert Tone: 330 Watts
Power Input	12-28 VDC
Electromagnetic Compatibility (EMC)	Designed to meet FCC Part 15 class A radiated emissions

<sup>1</sup> *Designed to meet MIL-STD-810-G, MIL-STD-167-1A, MIL-S-901D. Testing is currently ongoing. Designed to meet MIL-STD-147D. Standard establishes acoustical noise limits and prescribes testing requirements and measurement techniques for determining conformance to the noise limits specified therein.*

## Genasys

Global Provider of Protective Communications Solutions

Protecting people and saving lives for over 40 years, Genasys Protect 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).

**REQUEST A DEMO**



LRAD products are available for purchase through multiple channels including: DLA TLS SOE, GSA Advantage, Federal and State grants, FEMA Authorized Equipment List (AEL), and others. More information: [sales@genasys.com](mailto:sales@genasys.com)

© 2025 GENASYS INC.  
D00222 Rev. E