



Dash Mount Control Module (MP3 Player)

Record-on-the-fly Microphone

## PRODUCT INFORMATION

450XL (-BLK/-GRN/-GRY/-TAN)	LRAD 450XL manually operated, long range communication system with dash mounted MP3 control module
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## INCLUDED ACCESSORIES

Control Module	Remote MP3 control module
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
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	Flat surface mount
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
- › Simple to operate: increased coverage with a single operator
- › Safer alternative to non-lethal and kinetic measures
- › HD camera (optional): Attachable camera and mount for recording video and audio during LRAD operation

## MARKETS SERVED

- › Law Enforcement
- › Defense
- › Commercial Security
- › Critical Infrastructure Security
- › Maritime
- › Homeland Security
- › Fire Rescue & Incident Management
- › Port & Border Security
- › Emergency Warning
- › Mass Communication
- › Wildlife Preservation & Control

## LOW PROFILE, LONG RANGE COMMUNICATION SYSTEM

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

The LRAD 450XL broadcasts powerful warning tones to command attention to the highly intelligible voice messages that follow, enabling operators to change behavior and enhance response capabilities with safe, scalable escalation of force.

Lightweight and designed for use on tripods or mounted on vessels, vehicles, and Remote Weapon Stations (RWS), the LRAD 450XL is a highly effective, long range communication 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

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	Designed to meet MIL-STD-1474D

## MECHANICAL SPECIFICATIONS

Dimensions	14.5" H x 27" W x 11.6" D (36.8 cm x 68.6 cm x 29.5 cm)
Weight	36.5 lbs. (16.6 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)	FCC Part 15 class A radiated emissions

Designed to meet FCC Part 15 class A

## Genasys - The Leader in Protective Communications

Genasys Protective Communications Solutions have a diverse range of applications, including predictive simulation to anticipate and understand the potential impact of emerging crises; emergency warning and mass notification for public safety; critical event management for commercial enterprises and government agencies; de-escalation for defense and law enforcement; as well as automatic detection of real-time threats. For more information, visit [genasys.com](http://genasys.com).

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