

# 450XL-MMT

## Helicopter-mounted, Air-to-Ground Communication System



### ORDERING INFORMATION

CATALOG NUMBER	DESCRIPTION
450XL-MMT-G-HH60	LRAD 450XL with HH-60 helicopter mount
450XL-MMT-G-UH1	LRAD 450XL with UH-1 helicopter mount

### INCLUDED ACCESSORIES

Control Unit	Stores and controls the playback of audio files
Recording Microphone	Microphone capable of recording messages and broadcasting live speech
AUX Cable	Connects Control Unit to an external audio device via 3.5 mm plug
USB Cable	Connects Control Unit to a computer to download audio files
Hearing Protection	Disposable hearing protection

The LRAD 450XL-MMT is quickly installed and removed from the helicopter cabin's floor with included floor clamps. FAA STC not required.



### LONG RANGE AIRBORNE COMMUNICATIONS

- › Powerful, intelligible communication over distances of 500 meters while in flight
- › Variable beam width for extended coverage
- › Quickly installed and removed from helicopter
- › Self-powered
- › Supplemental Type Certificate (STC) not required

### FEATURES

- › Ruggedized mount aims and locks LRAD into position
- › Self-powered for 4 to 6+ hours of continuous operation when fully charged
- › Integrated battery monitor displays battery charge level reading
- › Simple to install and operate
- › Control unit may be mounted on the back of the LRAD or operated via remote cable (included)
- › Mounts to helicopter cabin floor with included jaw clamps

### MISSIONS

- › Law Enforcement
- › Defense
- › Maritime
- › Homeland Security
- › Fire Rescue & Incident Management
- › Port & Border Security
- › Emergency Warning
- › Mass Notification



# 450XL-MMT

## Helicopter-mounted, Air-to-Ground Communication System

### HELICOPTER-MOUNTED LRAD SYSTEM

The LRAD 450XL-MMT features an adjustable helicopter mount with an integrated rechargeable power pack for full LRAD positioning and operation inside numerous helicopter models.\*

Self-powered and designed to be temporarily mounted and quickly removed following mission completion, the rugged mount provides a full range of pan & tilt motion, and can also be easily locked in a desired orientation. The LRAD 450XL-MMT comes with 12-jaw cargo tie down quick disconnect adapters to accommodate a variety of helicopter cabin floor mounting options.

Integrated lead-acid absorbed glass mat (AGM) batteries power the LRAD 450XL-MMT for 4 to 6+ hours of continuous operation. Batteries feature an integrated battery level monitor.

A separate charger capable of charging a fully discharged battery bank in approximately 10 hours comes standard with the LRAD 450XL-MMT.

\* Designed for use with Sikorsky HH-60 and Bell UH-1. May be adapted for use with other medium/large commercial and military helicopters, including: Sikorsky S-76, H-92, and H-3; Bell 204/5, and 214; Eurocopter AS330, 332, and 365; and AugustaWestland AW139.

### ACOUSTIC PERFORMANCE

Maximum Continuous Output	145 dB SPL @ 1 meter, A-weighted	
Sound Projection	Narrow: +/- 15° @ 1 kHz/-3 dB	Wide: +/- 30° @ 1 kHz/ -3 dB
Communication Range	500 meters over 88 dB of background noise	

### MECHANICAL SPECIFICATIONS

Dimensions	HH-60 Configuration: 30.1 in H x 27.0 in W x 24.0 in D (76.5 cm x 68.6 cm x 61.0 cm)
	UH-1 Configuration: 30.1 in H x 27.0 in W x 21.9 in D (76.5 cm x 68.6 cm x 55.6 cm)
Weight	HH-60 Configuration: Approximately 153.4 lb (69.6 kg)
	UH-1 Configuration: Approximately 142.0 lb (64.4 kg)
Construction	Construction-molded low-smoke composite, 6061 aluminum, 316 stainless hardware

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

Power Consumption	Normal: 75 Watts (voice content)	Peak: 310 Watts (alert tone)
Battery Capacity	70Ah (4 to 6+ hours of continuous operation)	
Battery Charger	Input: 100-230 VAC 50/60 Hz	Output: 24 VDC 7 A
LRAD Power Input	12-28 VDC	
Electromagnetic Compatibility	FCC Part 15 Class A Radiated Emissions	

<sup>1</sup> Typical power with Warning Tone, normal power consumption with voice content, sound projection wide, Voice Boost off.

### ENVIRONMENTAL PERFORMANCE

Operating Temperature: Cold/Hot	MIL-STD-810G, Method 501.5 & 502.5, Procedure II, Design type Basic Cold/Hot, -33° to 60° C
Storage Temperature: Cold/Hot	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
Sand and Dust	MIL-STD-810G, Method 510.5, Procedure I, Blowing Dust; Procedure II, Blowing Sand
Transit Drop	MIL-STD-810G, Method 516.6, Procedure IV, Transit Drop at 2.1 meters
Solar Radiation (Sun Shine)	MIL-STD-810G, Method 505.5, Procedure II, Steady State (Actinic Affects)
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 514.6, Wheeled Vehicles
SRS & Crash Hazard Shocks	MIL-STD-810G, Method 516.6, Procedures I & IV, Functional Shock & Crash Hazard Shock
Safety	MIL-STD-1474D

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