genasys

LRAD 500X-MMT

Helicopter-Mounted, Air-to-Ground Communication System

ORDERING INFORMATION

CATALOG NUMBER	*DESCRIPTION*
500X-MMT-GRY-HH60	LRAD 500X with HH-60 helicopter mount
500X-MMT-GRY-UH1	LRAD 500X with UH-1 helicopter mount

INCLUDED ACCESSORIES

Control Unit	LRAD control module with 8 GB onboard storage memory
Record on the Fly Mic	Microphone with record and playback feature for immediate playback
AUX IN Cable	Connects Control Unit to external audio device via 3.5 mm plug
USB Download Cable	Allows user to download files to the Control Unit
Hearing Protection	Disposable hearing protection

LRAD 500X-MMT is quickly installed and removed from helicopter cabin floor with included floor clamps. FAA STC not required.

LONG RANGE AIRBORNE COMMUNICATIONS

- Powerful, intelligible communication over distances of 650 meters or more 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
- Optional soft cover protects the head unit from UV rays, dirt, and dust

MISSIONS

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

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HELICOPTER-MOUNTED LRAD SYSTEM

The LRAD 500X-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 or can be easily locked in a desired orientation. The LRAD 500X-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 500X-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 500X-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 AgustaWestland AW139.

ACOUSTIC PERFORMANCE

Maximum Peak Output	154 dB SPL @ 1 meter, C-weighted	
Maximum Continuous Output	149 db SPL @ 1 meter, A-weighted	
Sound Projection	Narrow: +/- 15° @ 1 kHz/-3 dB	Wide: +/- 30° @ 1 kHz/-3 dB
Communication Ranges	More than 650 meters over 88 dB of background noise	

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
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 Shock	MIL-STD-810G, Method 516.6, Procedure I, Functional shock

[1] *DESIGNED TO MEET MIL-STD-810G, MIL-STD-167-1A & MIL-S-901D.*

MECHANICAL

Dimensions	**HH-60:** 30.0" W x 44.0" H x 24.0" D	**UH-1:** 30.5" W x 44.0" H x 23.1" D
Weight	**HH-60:** 176.0 lbs.	**UH-1:** 181.6 lbs.
Construction	Molded cross-linked polyethylene, 6061 aluminum, 316 stainless hardware	

ELECTRICAL REQUIREMENTS[1]

Power Consumption	**Normal:** 60 Watts (voice content)	**Peak:** 265 Watts (alert tone)
Battery Capacity	33Ah (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	

[1] *TYPICAL POWER WITH WARNING TONE. NORMAL POWER CONSUMPTION WITH VOICE CONTENT, SOUND PROJECTION IS WIDE AND VOICE BOOST IS OFF.*

SAFETY[2]

	MIL-STD-1474D

[2] *DESIGNED TO MEET MIL-STD-1474D. STANDARD ESTABLISHES ACOUSTICAL NOISE LIMITS AND PRESCRIBES TESTING REQUIREMENTS AND MEASUREMENT TECHNIQUES FOR DETERMINING CONFORMANCE TO THE NOISE LIMITS SPECIFIED THEREIN.*

ELECTROMAGNETIC COMPATIBILITY (EMC)[3]

	FCC Part 15 class A radiated emissions

[3] *DESIGNED TO MEET REQUIREMENTS FOR THE CONTROL OF ELECTROMAGNETIC INTERFERENCE CHARACTERISTICS OF SUBSYSTEMS AND EQUIPMENT*

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