genasys

LRAD 500X-RE

Rugged, Long Range Communications

Dash Mount Control Module (MP3 Player)

PRODUCT INFORMATION

500X-RE (-BLK/-GRN/-GRY/-TAN)	LRAD-500X-RE remote electronics, long range communication system with dash mounted MP3 control module (available in either black, green, gray, or tan).

INCLUDED ACCESSORIES

Control Module	Remote MP3 control module with 2 to 16GB onboard storage memory
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
Normalizer Software	Audio Normalizer software for creating customized audio recordings on a PC
Soft Cover	Protective Soft Cover

OPTIONAL ACCESSORIES

Wireless Kit	Wireless operation of LRAD systems over ranges up to 300 meters, 35mm phone jack connects to a standard MP3 audio device (UHF, US only). Lightweight hypercardioid headset microphone is included
HD Action Camera	During LRAD operation, record High Definition, date/time stamped video and audio with this compact, rugged digital camera
Maxa Beam Kit	12 million candlepower in a lightweight, mounted searchlight, illuminates targets up to 3,500 meters away
Power Supply Module	External AC to DC power supply, 100-220VAC to 28VDC
Power Pack	Portable power pack with internal battery, charger, 24VDC, 21AH
Hitch Mount	Vehicle Mount - attaches to standard trailer hitch receiver (2in/5.08cm)
GPK Mount	Mounts to Objective Gunner Protection Kit (OGPK) for vehicle mounted operations
Shiprail Mount	Stainless steel rail mount
Hard Case	Watertight, dust proof, rugged enclosure for storage and transport
Medium Duty Tripod	Rugged lightweight tripod with optional hard transport and storage case

DIRECTIONALITY, POWER & RANGE

- Powerful, intelligible voice communications up to 2,000 meters
- Focused, directional broadcasts for targeted communication
- Variable beam width for extended coverage
- Safely communicate beyond standoff distances
- Create instant acoustic standoff perimeter

FEATURES

- Rugged, military tested construction
- Low power requirements
- All-weather use
- Simple to operate – increased coverage with single operator
- Safer alternative to non-lethal and kinetic measures
- HD Camera (optional) - Quick connect/disconnect camera and mount for recording video and audio during LRAD operation. Includes 4GB micro SDHC for up to 210 minutes of date and time stamped recordings

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

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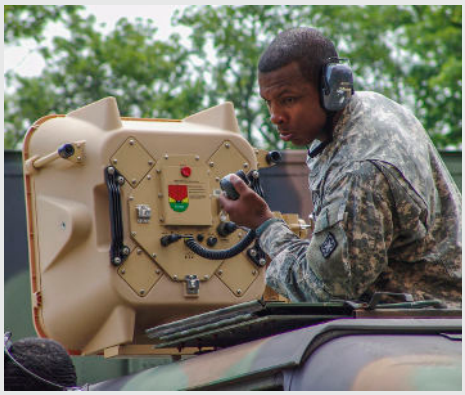
COMPACT, LONG RANGE COMMUNICATION SYSTEM

The LRAD 500X-RE is compact, lightweight and designed for applications ranging from fixed security installations to small/ mid-sized vehicles and vessels. It can be easily transported to provide security and defense personnel a highly effective communication, hailing and warning capability.



The LRAD 500X has been selected as the U.S. Navy and U.S. Army's AHD (acoustic hailing device) for small vessels and vehicles.

LRAD 500X operators have the capability to issue clear, authoritative verbal commands, followed with powerful deterrent tones to modify behavior, enhance response capabilities and provide more time to scale the use of force if required. The extended frequency range of the LRAD 500X-RE ensures voice commands will be clearly heard and understood.

ACOUSTIC PERFORMANCE

Maximum Peak Output	154dB SPL @ 1 meter, C-weighted
Maximum Continuous Output	149db SPL @ 1 meter, A-weighted
Sound Projection	+/- 15° @ 1kHz/-3dB
Communication Ranges	Maximum range up to 2,000 meters in ideal conditions. Operational range up to 650 meters over 88dB of background noise. Ranges based on continuous output.

ENVIRONMENTAL PERFORMANCE

Hot Operating Temperature	MIL-STD-810G, Method 501.5, Procedure II, Design type Hot, 60°C
Cold Operating Temperature	MIL-STD-810G, Method 502.5, Procedure II, Design type Basic Cold, -33°C
Hot Storage Temperature	MIL-STD-810G, Method 501.5, Procedure I, 70°C
Cold Storage Temperature	MIL-STD-810G, Method 502.5, Procedure I, -40°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, Shipboard Shock, 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)

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

MECHANICAL

Dimensions	25"W x 25" H x 12" D (63.5cm x 63.5cm x 30.5cm)
Weight	44 lbs. (19.96 kg) without accessories
Construction	Construction Molded cross-linked polyethylene, 6061 Aluminum, Optional Stainless Steel connectors

ELECTRICAL REQUIREMENTS[1]

Power Consumption	Typical Power consumption 265 Watts (With tone) Normal power consumption 60 Watts (With voice content)
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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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.

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