



500X-RT

Rugged, Long-Range Communication System



PRODUCT INFORMATION

500X-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 operation of LRAD systems out to 300 meters, 35mm phone jack connects to a standard MP3 audio device (UHF, US only). Lightweight hypercardioid headset microphone included
HD Action Camera	During LRAD operation, record High Definition, date/time stamped video and audio with this compact, rugged digital camera
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
Soft Cover	Protective soft cover
Medium Duty Tripod	Rugged lightweight tripod with optional hard transport and storage case

DIRECTIONALITY, POWER, & RANGE

- › Powerful, intelligible voice communication up to 2,000 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
- › 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



COMPACT, LONG RANGE COMMUNICATION SYSTEM

The LRAD 500X-RT is compact, lightweight, and designed for applications ranging from fixed security installations to small/mid-size vehicles and vessels. Easily transported to provide security and defense personnel highly effective communication, hailing, and warning capabilities.

The LRAD 500X series was originally selected as the Navy and Army acoustic hailing device for small vessels and vehicles.

The LRAD 500-RT provides operators the ability to issue clear, authoritative verbal commands and powerful deterrent tones to scale and enhance EOF commensurate to the threat or situation.

The extended frequency range of the 500X-RT ensures voice commands are clearly heard and understood.



Analog / Digital / Power Interface

500X-RT

Rugged, Long-Range Communication System

ACOUSTIC PERFORMANCE

Maximum Peak Output	154 dB SPL @ 1 meter, C-weighted
Maximum Continuous Output	149 dB SPL @ 1 meter, A-weighted
Sound Projection	+/- 15° @ 1 kHz / -3 dB
Communication Ranges	Maximum range up to 2,000 meters in ideal conditions. Operational range up to 560 meters over 88 dB of background noise. Ranges based on continuous output.

ENVIRONMENTAL PERFORMANCE¹

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

ELECTRICAL REQUIREMENTS

Power Consumption	Typical Power consumption 265 Watts (With tone) Normal Power consumption 60 Watts (With voice content)
Power Input	12-28 VDC
Electromagnetic Compatibility (EMC)	Designed to meet FCC Part 15 class A radiated emissions

¹ 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.

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