

# LRAD UAVX 450

*Lightweight, Portable, Long Range Communication*



## ORDERING INFORMATION

UAVX450	LRAD UAVX 450 battery powered Heavy Duty LRAD
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## INCLUDED ACCESSORIES

MP3 Player	MP3 player to store, control, and broadcast audio messages and tones
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
Li-Fe-PO4 Battery	8-Hour Lithium Iron Phosphate rechargeable battery
Battery Charger	AC powered battery charger
Hard Case	Watertight, dust proof, rugged enclosure for storage and transport

## 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.
Stud Mount	Mounting yoke kit for LRAD-100X, compatible for LRAD tripods (tripod not included)
Stud Kit	Stud weldment kit
Table Mount Kit	Fixed mount for flat surfaces

## DIRECTIONALITY, POWER, RANGE & INTELLIGIBILITY

- › Powerful, intelligible voice communications more than 2500 meters
- › Focused, directional broadcasts for targeted communication
- › Safely communicate beyond standoff distances
- › Create instant acoustic standoff perimeter
- › Deliver clearly heard and understood communications into buildings & vehicles

## FEATURES

- › 8-hour rechargeable battery
- › Easy to Operate
- › Optional power sources
- › Simple operator interface
- › Water-resistant

## 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



## SELF-CONTAINED, PORTABLE COMMUNICATION SYSTEM

The LRAD UAVX 450 is a compact and self-contained communication system designed for tactical and on-the-ground communication. It provides clear, long-distance audio transmission, ideal for use in noisy environments or during critical operations.

The LRAD UAVX450 delivers unmatched vocal clarity and operates at max SPL 151±2dB.

It is also four to six times louder than other acoustic hailers of similar size and weight. Thanks to LRAD's advanced driver and waveguide technology, it ensures that every message is transmitted clearly and understood, even in environments with engine noise, large crowds, sirens, and other background disturbances.

The LRAD warning tone effectively grabs attention before voice messages are delivered, offering a safer alternative to non-lethal or kinetic methods for influencing behavior.



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## ACOUSTIC PERFORMANCE

Maximum Peak Output	151±2dB SPL @ 1 meter, C-weighted
Maximum Continuous Output	151±2db SPL @ 1 meter, A-weighted
Cover Angle	horizontal 30°x vertical 30°
Communication Ranges	Maximum range of more than 2500 meters in ideal conditions. Dispersing zone up to 350 meters with Dangerous Zone of up to 90 meters. 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, Class I, Shock grade B
Random Vibration	MIL-STD-810G, Method 516.6, Procedure I, (Functional shock)

## MECHANICAL

Weight	16.8 kg) with battery, accessories and cables
Construction	Injection molded, impact resistant polymer, 6061 Aluminum

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

Power Consumption	Typical Power consumption 85 Watts (With tone) Normal power consumption 20 Watts (With voice content)
Power Input	10.8 to 16.8 VDC, Included rechargeable 13.2VDC Li-Fe-PO battery for up to 2 hours of continuous operation at maximum volume on a full charge.

<sup>1</sup> BATTERY LIFE UP TO 2 HOURS OF CONTINUOUS OPERATION AT MAXIMUM TONE ON A FULL CHARGE. ADAPTERS AVAILABLE FOR AUTO CIGARETTE LIGHTER AND FOR 2590 RECHARGEABLE MILITARY BATTERY.

## SAFETY<sup>2</sup>

MIL-STD-1474D

<sup>2</sup> DESIGNED TO MEET MIL-STD-1474D STANDARD WHICH ESTABLISHES ACOUSTICAL NOISE LIMITS AND PRESCRIBES TESTING REQUIREMENTS AND MEASUREMENT TECHNIQUES FOR DETERMINING CONFORMANCE TO THE NOISE LIMITS SPECIFIED THEREIN.

## ELECTROMAGNETIC COMPATIBILITY (EMC)<sup>3</sup>

FCC Part 15 class A radiated emissions

<sup>3</sup> DESIGNED TO MEET REQUIREMENTS FOR THE CONTROL OF ELECTROMAGNETIC INTERFERENCE CHARACTERISTICS OF SUBSYSTEMS AND EQUIPMENT.

## UAVX Automation - Leading the Way in Protective Communications

UAVX Automation offers a broad array of protective communication solutions. These include predictive simulations to assess and anticipate emerging crises, emergency alert systems for public safety, and critical event management for both businesses and government agencies. The solutions also support de-escalation strategies for law enforcement and defense, along with real-time threat detection. For more information, visit [uavxautomation.com](http://uavxautomation.com).