LRAD CORPORATION

LRAD 1000X™

PRODUCT SHEET

SYSTEM COMPONENTS

LRAD 1000X can be integrated with a variety of accessories for custom security solutions

MP3 PLAYER

LRAD Corporation's hardened, ruggedized MP3 player comes standard with LRAD 1000X and is used to play pre-recorded messages and warning tones.

MICROPHONE

The Shure Model577B Microphone is a handheld dynamic microphone designed for communications that require highly intelligible, low noise output.

MAXA BEAM

The Maxa Beam searchlight delivers 6 million candlepower in a lightweight, handheld unit. Using a high efficiency 75 watt Xenon short arc lamp with over 500 hours of life, this searchlight illuminates targets up to 1.5 miles away. Optional.

THE LRAD-X™ ADVANTAGE:

EXTENDED DIRECTIONALITY/OUTPUT

- DETERMINES THE INTENT OF A THREAT AT AN EXTENDED RANGE
- ASSESSES A THREAT SITUATION PRIOR TO INTERDICTION
- VARIABLE BEAM WIDTH FOR EXTENDED COVERAGE
- REDUCES THE RISK OF EXPOSING NEARBY PERSONNEL TO EXCESSIVE AUDIO LEVELS

EXTENDED FREQUENCY RANGE

- BROADCAST FULL VOICE SPECTRUM AT EXTENDED RANGES

COST EFFECTIVE SOLUTION

- INCREASED SECURITY COVERAGE
- REDUCED MANPOWER
- IMPROVED RESPONSE TIMES
- IMPROVED COORDINATION EFFORTS

EASE OF USE

- RUGGEDIZED PACKAGE
- LOW POWER REQUIREMENTS
- ALL WEATHER CAPABILITY
- LIGHTWEIGHT
- FLEXIBLE MOUNTING

STRONG, LOUD AND CLEAR WITH LRAD 1000X

LRAD 1000X can be manually operated to provide long distance hailing and warning with highly intelligible communication.

The superior voice intelligibility and clarity of LRAD 1000X provides a directional audio beam that can communicate with high intelligibility over 88 dB of background noise beyond 1250 meters and capable of communicating over 3000 meters away in a benign environment. LRAD-X™ operators have the ability to issue clear, authoritative verbal commands, followed with powerful deterrent tones to enhance response capabilities. The extended frequency range of the LRAD-X ensures voice commands will be clearly understood.

LRAD 1000X™

ACOUSTIC PERFORMANCE

Maximum Continuous Output	152 dB SPL at 1 meter
Beam Width	+/-15° @ 1.0 kHz/-3dB
Frequency Range	See frequency response curve below
Communications Range	Highly intelligible speech transmissions over 3000 meters; *Max range of 1250 meters over 88 dB of background noise.

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
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)
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

MECHANICAL

Construction	Molded low smoke composite; 6061 Aluminum Stainless steel 316 Stainless hardware
Emitter Array Weight	85 lbs without accessories
Emitter Array Dimension	36" W x 40" H x 13" D
Electronics Module Dimension	21.2" x 16" x 8.3"
Electronics Housing	Watertight molded case

ELECTRICAL REQUIREMENTS

Power Consumption	Normal power consumption 250 watts, Peak power consumption 750 watts
Power Input	100 - 240VAC

SAFETY

MIL-STD-1474D

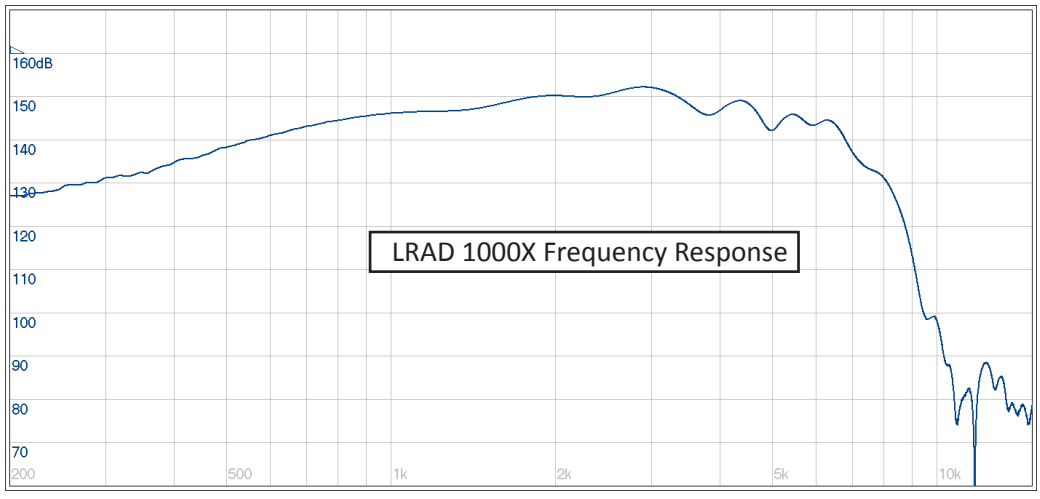
ELECTROMAGNETIC COMPATIBILITY (EMC)

FCC Part 15 class A radiated and conducted emissions; MIL-STD-461ECE

COLORS

White	Catalog No. LRAD-1000X-W-SYS
Gray	Catalog No. LRAD-1000X-G-SYS

*6+ dB above background noise is based on field trials conducted by independent sources.



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Preliminary Specifications -Subject to Change