



**AmericanTechnology™**  
CORPORATION

Shaping the future of sound®

# LRAD 1000X™

## PRODUCT SHEET

### SYSTEM COMPONENTS

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



#### MP3 PLAYER

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



#### MICROPHONE

The Shure Model 577B 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
- 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

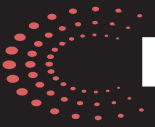
#### EASE OF USE

- 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-X™

Long Range Acoustic Device™

# LRAD 1000X™



### ACOUSTIC PERFORMANCE

Maximum Continuous Output  
Beam Width  
Frequency Range  
Communications Range

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

### ENVIRONMENTAL PERFORMANCE

Hot Operating Temperature  
  
Cold Operating Temperature  
  
Rain  
  
Salt Fog  
Shipboard Vibration  
Shipboard Shock  
Random Vibration  
SRS Shock  
  
Hot Storage Temperature  
Cold Storage Temperature  
Operating Humidity

MIL-STD-810G, Method 501.5, Procedure II, Design type Hot, 55°C  
  
MIL-STD-810G, Method 502.5, Procedure II, Design type Basic Cold, -33°C  
MIL-STD-810G, Method 506.5, Procedure I, Blowing rain  
MIL-STD-810G, Method 509.5  
MIL-STD-167-1A  
MIL-S-901D, Class I, Shock grade B  
MIL-STD-810G, Method 514.6, Wheeled vehicles  
MIL-STD-810G, Method 516.6, Procedure I (Functional shock)  
MIL-STD-810G, Method 501.5, Procedure I, 70°C  
MIL-STD-810G, Method 502.5, Procedure I, -40°C  
MIL-STD 810G, Method 507.5, Procedure II  
– Aggravated Cycle

### MECHANICAL

Construction  
  
Emitter Array Weight  
Emitter Array Dimension  
Electronics Module Dimension  
Electronics Housing

Molded low smoke composite; 6061 Aluminum  
Stainless steel 316 Stainless hardware  
85 lbs without accessories  
36" W x 40" H x 13" D  
21.2" x 16" x 8.3"  
Watertight molded case

### ELECTRICAL REQUIREMENTS

Power Consumption  
  
Power Input

Normal power consumption 300 watts  
Peak power consumption 900 watts  
100 - 240VAC

### SAFETY

MIL-STD-1474D

### ELECTROMAGNETIC COMPATIBILITY (EMC)

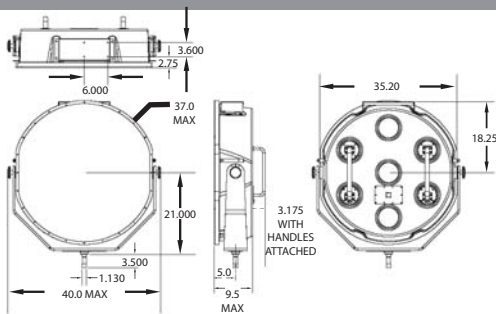
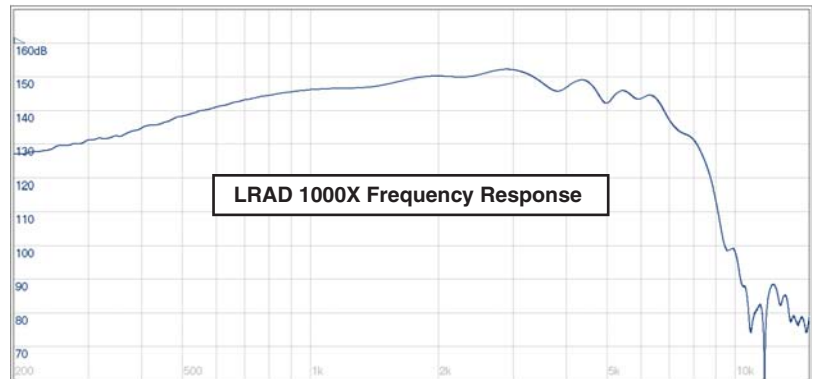
FCC Part 15 class A radiated and conducted emissions; MIL-STD-461ECE

### COLORS

White  
Gray ■

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

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



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LAST MODIFIED 09/22/09 - SPECIFICATIONS ARE PRELIMINARY - SUBJECT TO CHANGE