



PRODUCT SHEET

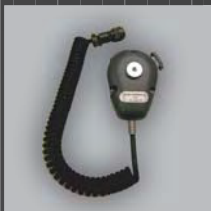
SYSTEM COMPONENTS

LRAD 500X can be integrated with a variety of accessories for custom security solutions



MP3 PLAYER

ATC's hardened, ruggedized MP3 player comes standard with LRAD 500X and is used to play pre-recorded messages and warning tones.



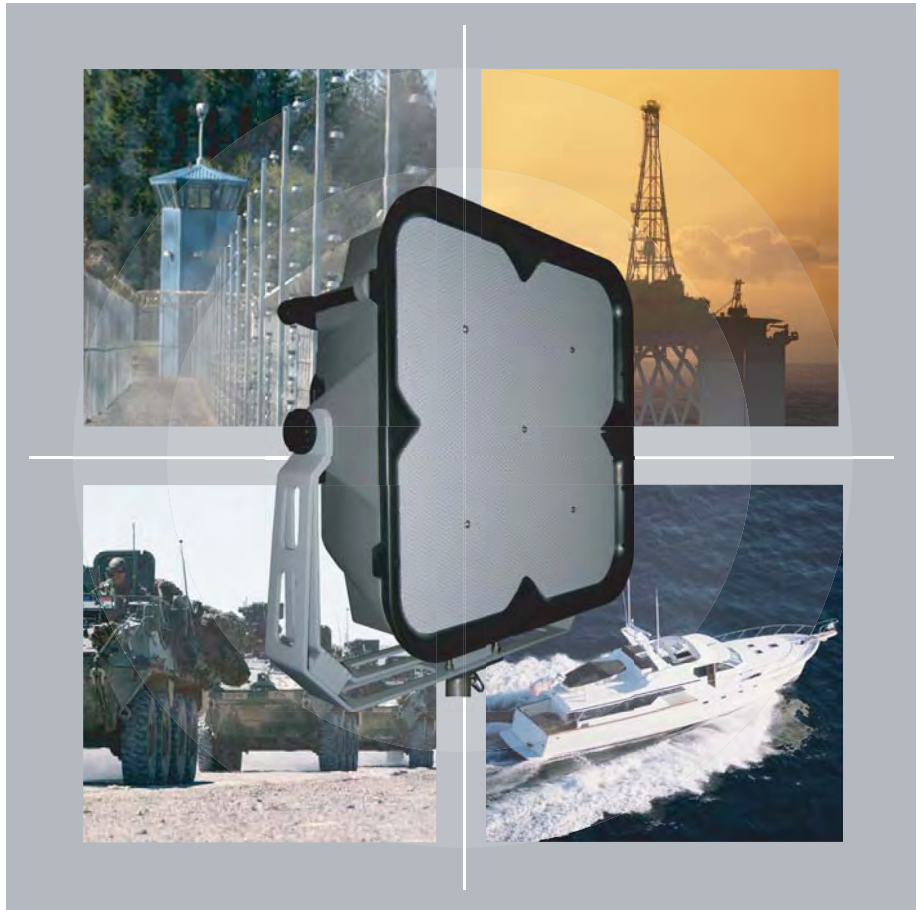
MICROPHONE

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.



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 500X

LRAD 500X is lightweight and can be easily transported to provide security personnel long range communications and a highly effective hailing and warning capability where needed.

The superior voice intelligibility and clarity of LRAD 500X provides a highly directional audio beam that achieves maximum sound projection and penetration over distance (300 meters and beyond). LRAD 500X operators have the ability to issue clear, authoritative verbal commands, followed with powerful deterrent tones to enhance response capabilities. The extended frequency range of LRAD 500X ensures voice commands will be clearly understood.

LRAD-X™

Long Range Acoustic Device™

ACOUSTIC PERFORMANCE

Communications Range	Intelligible speech transmissions at 300 meters minimum with 88 dBA background ambient noise at target
Frequency Range	500Hz to 5kHz
Maximum Volume (SPL)	146dB @ 1 meter
Acoustic "Beam" Width	Over 95 dB at 300 meters
Power Requirements	+/-15° @ 1 kHz/-3dB
Power Input	Normal Power Consumption 250 Watts
Back Wave Cancellation	Peak Power Consumption 350 Watts
	12 - 28VDC
	Over 35 dB lower than the front at Maximum SPL

ENVIRONMENTAL

Random Vibration	MIL-STD-810F, Method 514.4, Wheeled Vehicles
Shipboard Vibration	MIL-STD-167-1A
Shipboard Shock	MIL-S-910D, Class I, Shockgrade B
SRS Shock	MIL-STD-810F, Method 516.5, Procedure 1 (Functional Shock)
High/Low Temp Operational	MIL-STD-810F, Method 501.4 & 502.4, Procedure 2
Rain	MIL-STD-810F, Method 506.4, Procedure 2, Blowing Rain
Operating Humidity	MIL-STD-810F, Method 507.4
Salt Fog	MIL-STD-810F, Method 509.4

SAFETY

MIL-STD-1474D

ELECTROMAGNETIC COMPATIBILITY

FCC Part 15 Class A radiated and conducted emissions

MECHANICAL

Emitter Array Dimension 25" W x 25" H x 12" D

UNIT WEIGHT

Emitter Array Weight 44 lbs without accessories

UNIT COLORS

Gray

Tan

Catalog No. LRAD-500X-G-SYS

Catalog No. LRAD-500X-T-SYS

