

## THE SOUND OF FORCE PROTECTION™

### Features

- Operationally effective 30° high energy acoustic beam
- Clear and intelligible voice communications effective 300 to 500+ meters depending on environmental conditions
- Attention-getting and highly irritating warning tone effective 500 to 800+ meters, behavior modification at high power inside 200 meters
- All-weather operation
- Manual, man-portable operations
- Pan/tilt remote operation for integrated AT/FP systems including video/voice recording capabilities
- Flexible mounting (stand-alone tripod/50 Cal mount/ship rail/vehicle/building)
- Minimal power requirement of 4 Amps, operates on 120VAC, battery, inverter, or generator
- Flexible audio input/user interface supporting multi-language communications (microphone with dynamic voice capability, MP3, CD, Voice Response Translator, laptop, etc.)

### SUPPORTED MISSIONS

- Waterside force protection
- Crowd and riot control
- Area denial of personnel
- Building clearing operations
- Psychological operations
- Visit board search and seizure
- Remote-operation infrastructure force protection
- Ground/mechanized offense/defense operations

The Long Range Acoustic Device (LRAD™) is a breakthrough long-range hailing and warning, directed acoustic beam device. LRAD was developed to communicate at operational ranges with authority and superior intelligibility in high ambient noise environments. LRAD is known throughout the Department of Defense as "The Sound of Force Protection." LRAD systems are currently in operational use or evaluation in maritime, check point, vehicular, airborne, and integrated system applications by the USN, USMC, US Army, and USCG. LRAD also supports applications for the Department of Homeland Security, other government and law enforcement agencies, plus high-value commercial infrastructure.

LRAD is a flat panel, multi-transducer, phase coherent emitter. Designed for highly-directional communication in host nation language at 300+ meters over land and 500+ meters over water, LRAD can also issue a warning tone that influences behavior and determines intent at safe stand-off distances. Thereby, the LRAD operator can execute proactive responses under existing rules of engagement. Addressing the critical "danger close" capability gap, LRAD can save lives on both sides of the device. In the remote-operation pan/tilt configuration, LRAD provides a first responder capability for large infrastructure force protection.



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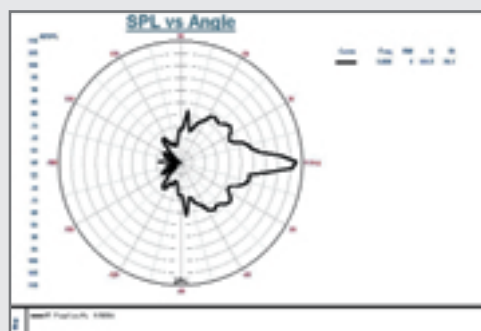
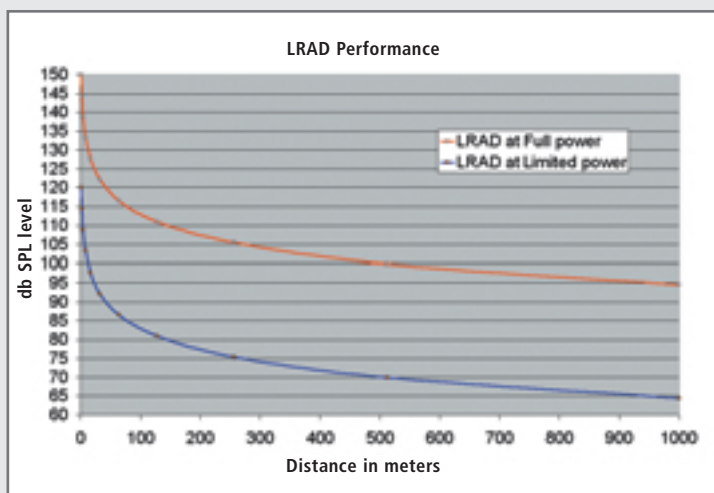
*Shaping the future of sound®*

## LRAD 3300 SERIES TECHNICAL SPECIFICATIONS



Naval Vessel Protection Zone  
DTG 222325Z AUG 02 CINCLANTFLT

WEIGHT :	45 lbs
DIAMETER:	33" diameter x 5" thickness
MAXIMUM SPL TONE:	146dB sustained, 151dB burst at 1 meter
MAXIMUM SPL VOICE:	Less than 120dB sustained, based on individual voice frequencies and harmonic characteristics
REGULATED POWER MODE:	Normal operations, tone limited to 120dB at 1 meter
DURABILITY:	Thermal conditions have minimal effect on system performance. System meets MIL-STD 810 environmental specifications
EMITTER, HARMONIC DISTORTION:	Less than 1% THD at 126dB at 1 meter at 2.5kHz
MAXIMUM POWER HANDLING:	500 watts; 100-240VAC at 50-60Hz, 5 amps at 115VAC
NORMAL POWER USAGE (TONE):	240 watts, 2 amps at 115VAC
DIRECTIONALITY:	-20dB at +/- 15° at 2.5kHz



**American Technology Corporation (ATC)** is "Shaping the Future of Sound.®" Revolutionary concepts in directional acoustic beam forming and next generation intelligibility are the hallmarks of our engineered sound solutions. ATC has engineered innovative products to support military operations other than war and infrastructure force protection, plus addressed the unique requirements of aircraft hangars, carrier flight decks, large complexes and waterfronts. New specs are being written, new expectations are being set. ATC is leading the way in creative sound solutions for AT/FP, emergency notification, and safety solutions across government and industry.



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