

# Conquest Innovations

beyond communication.

## MAX-4 Acoustic Hailing Device

Maximum Acoustic eXchange

### High Power Acoustic Communication System for mobile applications

When you need to be heard!

The MAX-4 High Powered Acoustic Communication System is an extremely effective acoustic transceiver for use in mobile hailing and listening applications. Employing a version of Conquest's



patent-pending Distant Energy Frequency Tailoring (DEFT™) Technology, the MAX-4 optimizes the acoustic signal, providing the most clarity possible and ensuring intelligibility at long ranges where others fall short. In addition, the listen-back feature uses low-noise technology to hear voice sounds originating from the target location.



#### Unparalleled Voice Intelligibility.

"MAX 4 showed superior voice warning message intelligibility as compared to other AHDs of similar size and power requirements."

"Only AHDs with far greater size, weight, and power requirements outperformed MAX 4"  
Penn State Acoustic Performance Evaluation,  
November 29, 2006 \*

The MAX 4 is a stand-alone acoustic emitter system ready to operate immediately. Optional mounting systems can be quickly attached to many existing mobile platforms, crew served weapons mounts, tripods, or rooftops. The MAX-4 is also available as a remotely operated device allowing it to be mounted to any one of many remote mounts and pan-tilt mechanisms.

A 12 volt, 12 amp DC accessory power output is standard equipment and can operate searchlights, cameras, radio or other auxiliary devices.

\*See [conquestinnovations.com](http://conquestinnovations.com) for the full report

## MAX-4 Applications

- Convoy protection
- Police, fire and public safety
- Small watercraft hailing and warning
- Naval ship protection
- Passenger vessels
- Law enforcement
- Checkpoints
- Border enforcement

## Technical Specifications

Maximum Sound Pressure Level	145 dB at 1 meter
Weight	50 pounds (23 kg)
Dimensions	23.5"W x 16.5"H x 10"D (59 x 42 x 25 cm)
Frequency Response	500 - 6000 Hz
Beam Width	+/- 15° average over voice band
Environmental	
Rain	MIL-STD-810F, Method 506.4, Procedure 2
Operating Temp	MIL-STD-810F, -40 to +60° C
Storage Temp	MIL-STD-810F, -55 to +85° C
Shock	MIL-STD-810F, Method 516.5 Procedure 1 (Functional)
Vibration	MIL-STD-810F, Method 514-4, Category 20, US Highway
Horn system	Unitized carbon fiber
Power Supply Options	10-30 VDC or 88-260 VAC / 50-60 Hz
Maximum Power Consumption	400 W. acoustic + 150 W. accessory power

MAX-4 Acoustic Power with DEFT™				
Range in Meters	1	100	300	600
SPL in dB	145	104	93	86
Intelligibility 1-10**	N/A	10.0	9.2	6.0

\*\* In presence of 90dB(A) background noise

## Optional Equipment

- 7.5 million candlepower searchlight
- Application and vehicle-specific mounting hardware