



# Mega Array

## Long Range or Wide Area Acoustic Hailing System

### The Clear Voice™ 16MN Mobile or Fixed

Originally designed for the military, the 16MN is the most powerful acoustic hailing device on the market. With a measured output of 138 decibels and an effective range of over 1600 meters, the 16MN can deliver a clear and intelligible message to a target more than a mile away.

Built around the proprietary design of the Clear Voice planar transducer, the 16MN achieves distances and clarity levels that are unmatched by any conventional speaker or horn. Other devices that claim to have similar performance capabilities can not compete with Clear Voice in head to head demonstrations. While other devices must provide a signal level up to 10dB above the ambient noise level to be understood, the 16MN can deliver intelligible messages at 10dB below the ambient noise level.

The unique performance of the 16MN benefits the listener by not having to overpower the sound environment in order to be understood, reducing the chance of hearing damage when used in high noise areas or when the listener is standing in close proximity to the speaker.

Made to withstand the harshest of conditions, the 16MN is ideal for use on the deck of ships as a long range hailing system, along borders as a wide area communication device, or in any situation where intelligible messages need to be delivered to targets long distances away.

With the power and clarity of the Clear Voice 16MN system, vital messages can be delivered effectively to large crowds and over long distances. The ability to communicate effectively provides first responders and law enforcement agencies with an effective tool for controlling situations and delivering essential information where it is needed.



Contact your PCSC Representative for more details: [sales@1pcsc.com](mailto:sales@1pcsc.com)

### Ideal Applications:

- Industrial Plants
- Emergency Response
- Mass Notification
- Law Enforcement
- Military Applications
- Sports Stadiums
- Airfields / Airports
- Coast Guard Boats
- Maritime Vessels
- Tactical Vehicles
- Oil Fields
- Coastlines / Borders
- Public Address

### 16MN Features:

- 16 MAD-1 Planar Magnetic Transducers each mounted to a 500 Hz Waveguide
- 8000 Watts RMS or 16000 Program Peak
- Output of 138 Decibels
- Effective Range of Over 1600 Meters
- Fixed or Mobile Configurations
- Custom Frame Housing, Locking Casters, Pan and Tilt Capable
- Designed for Harsh Conditions

# Clear Voice 16MN Specifications

The 16MN is built into a custom frame, housing (4) 4MN speakers for a total of (16) Planar Transducers. The frame can be mounted to a permanent frame installed on the deck of a ship or in the back of a truck or tactical vehicle. For ease of use and mobility, the frame can be provided with locking casters so it can be moved into a desired position and with the ability to pan and tilt, the speaker can be aimed to maximize its effectiveness.

The 16MN system can be deployed as a self-contained mobile system that is powered by a portable generator or it can be used in a fixed installation where it is incorporated into a wide area emergency communica-

tion system. The power pack for the mobile system is a Honda EU3000is Generator. It has a 3000W capacity and can last for 7 hours on a tank of gas.



## General Description:

Configurations:	Self-contained system built into a custom mobile frame with power generator and audio control case. Also available in a fixed installation frame with mounting hardware, external power supplies and DSP for permanent installations.
Driver:	16 MAD-1 planar magnetic transducers each mounted to a 500 Hz waveguide
Horizontal Dispersion:	Nominal 10 degrees - useful to 20 degrees
Vertical Dispersion:	Nominal 10 degrees - useful to 25 degrees
Power Handling:	8000 watts RMS or 16000 program peak
Frequency Response:	180 Hz to 18 KHz
Maximum output:	138dB @ full power
Effective Range:	1,600 Meters
Enclosure:	Xenoy, high impact resistant, heat resistant, chemical resistant, weather resistant
Frame:	Aircraft Grade Aluminum
Environmental Design:	Designed to meet IP-66 classification and MIL-STD-810F specifications. Operates from -40 degrees Fahrenheit to 140 degrees Fahrenheit.
Weight and Dimensions:	360 lbs. / 45"W x 46"H x 16.5"D (speaker frame only - does not include mobile base)
Warranty:	3 Years for speaker materials and workmanship

In a quest for increasing product performance, these specifications are subject to change without notice.

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