

### What is a Long Range Acoustic Hailing Device?

It is movable and can transmit highly clear sounds to a long distant. Bluetooth and external USB memory are supported. MP3 file playback and microphone broadcasting are also available.



### FEATURES

- Superior Voice Intelligibility and Highly clear communication up to 1.7km
- High output of 146dB, 1.7km broadcasting distance(78dB)
- Bluetooth 3.0 support (connected to smartphone)
- External USB memory available
- MP3 file playback, microphone broadcast
- Maximum output limit available
- Embedded Amplifier
- All-weather us

### PROPA-500P SPECIFICATIONS

Max. SPL	146dBA(Peak)(@1m Front)
Directivity	±15° (2kHz Sine, -3dB)
Frequency Response	500Hz~5KHz
Communication Range	1.7km(78dB), 1km(82dB)
Weight	25kg
Power Input	100~230VAC or 24VDC
Power Consumption	Max. 1kW
Operating Temperature	-30°C ~ +60°C
Audio Controller	Copy from USB memory MP3 file Playback Character LCD(Backlight) – Sunshine Readable Handheld dynamic microphone
ETC	Can limit Max. SPL for hearing protection as customer’s request. Embedded AMP

## ❖ Components

### ➤ Basic Components

- Speaker Body : 1ea
- Audio Player : 1ea
- Mic : 1ea
- Power Module : 1ea
- Power Cable and Interface Cable : each 1ea

### ➤ Additional Components

- Cradle for PROPA-250P : 1ea
- Tripod for 500P : 1ea
- Headphone Type Hearing Protector : 2ea
- Form Type Hearing Protector : 1box(100ea)
- Sound Optimization Software : 1ea
- Spare Driver Unit : 1ea
- Carrier Case : 1ea



Audio Player

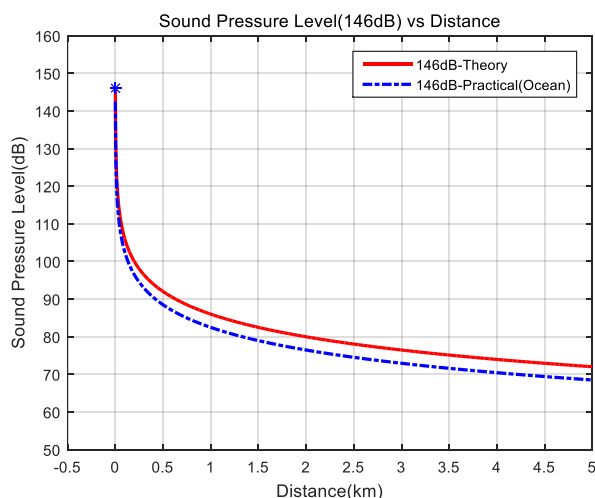


Tripod for 500P/1000P

Rear View



## ❖ Sound Pressure Level vs Distance



- 30~50dB Quiet library, noise in the woods, bedroom
- 50~60dB General office noise
- 60~70dB Noise on large ship deck
- 70~90dB Small ship engine noise (above deck)
- 80~100dB Noisy construction site, road noise
- 120~130dB Jet noise (100m)
- 130dB Above, we started to feel pain
- 160dB Rocket firing noise

Theoretically, We can hear sounds at 88dB at 500m, 82dB at 1km, and 68dB at 5km.

## Environment Certifications

- Random Vibration : MIL-STD 810F, Method 514.4
- Shipboard Vibration : MIL-STD-167-1A
- Shipboard Shock : MIL-STD-910D, Class I
- Shock : MIL-STD-810F
- High Temperature Operation : MIL-STD-810F, Method 501.4
- Low Temperature Operation : MIL-STD-810F, Method 502.4
- Operating Humidity : MIL-STD-810F, Method 507.4
- Salt Fog : MIL-STD-810F, Method 509.4
- Safety Standard : MIL-STD-1474D
- EMC Standard : FCC Part 15 Class A Radiated and Conducted Emissions
- Water and Dust Protection : IP66

## Main Features of Acoustic Hailing Device

- Since it broadcasts with directivity and high power, it can transmit highly clear sounds to a long distant (1 ~ 3km).
- With maximum output above 142dB, it can get over the noise of the surrounding area and can provide large and clear communication and warning signals to the inside of vehicles, ships or buildings, overcoming the limitation of the existing broadcasting system (P.A. System).
- It is possible to broadcast using a sound source and a microphone.



General Loudspeaker



Acoustic Hailing Device

## Applications of Acoustic Hailing Devices



### Emergency Warning & Fire Rescue

Fire Evacuation Broadcast, Public Place Guide and Evacuation Broadcast, Valley Evacuation Broadcast due to heavy rain, and Coastal Accident Prevention & Evacuation Broadcast



### Law Enforcement, Homeland & Border Security

Illegal Activity Warning, Beach Announcement, Access Control Broadcast, Crowd Control

### Military, Maritime, Security & Protection

Military Training control, Anti-Piracy, Major Facility Intruder Warning, Preserving Wildlife & Protecting Assets



### Traffic Accident Broadcasting, Traffic Control

Traffic Control, Prevention of Secondary Accident, Traffic Accidents and Foggy Broadcast, Emergency Evacuation Broadcast.

### Installation in Ships, Vehicles and Drones

Mounting on Warships, Ships, Fire Trucks, Ambulances, Police Cars, Helicopters, Drones

