



PROPA-U50



PROPA-U100



PROPA-U50 2Way



PROPA-U100 Outdoor

### The PROPA-U series are the Product Family of Super Directional Loudspeakers.

These products create audible sounds by using ultrasonic waves. Therefore, the directivity of sounds is very excellent. You can only hear the sounds where the loudspeaker is pointing.



## PROPA-U50

- The sound is clean and clear.
- Palm-sized, it is easy to use anywhere.
- There is a built-in amplifier.
- It is suitable for use in relatively quiet indoor places.

### SPECIFICATIONS

Max. SPL	104dB@1m
Frequency Response	100Hz ~ 5kHz(-10dB)
Directivity	±10°(1kHz, -10dB)
Power	12VDC(12W)
Size/Weight	158×100×50mm / 0.6kg
Input Method	Audio stereo jack(3.5Ø) 0.9V peak





### PROPA-U100

- The sound is clean and clear.
- There is a built-in amplifier.
- It's louder than PROPA-U50, so it is suitable for use in relatively noisy places.

#### SPECIFICATIONS

Max. SPL	109dB@1m
Frequency Response	100Hz ~ 5kHz(-10dB)
Directivity	±10°(1kHz, -10dB)
Power	12VDC(12W)
Size/Weight	208×174×68mm / 1.7kg
Input Method	Audio stereo jack(3.5Ø) 0.9V peak
Wall Mount	Left/Right : ±90°, Up/Down : ±45°



AMP

: The distortion of sound is minimized using the active level control of digital processor.

### PROPA-U100 Outdoor

- The sound is clean and clear.
- There is a built-in amplifier.
- It is waterproof(IP43) so it's suitable for outdoor use.

#### SPECIFICATIONS

Max. SPL	105dB@1m
Frequency Response	200Hz ~ 5kHz
Directivity	±10°(1kHz, -10dB)
Power	12VDC(12W)
Size/Weight	227×193×205mm / 2.2kg
Input Method	Audio stereo jack(3.5Ø) 0.9V peak
Wall Mount	Up/Down : ±90°





### PROPA-U50 2Way

- The sound is clean and clear.
- There is a built-in amplifier.
- It is equipped with both a Super Directional Loudspeaker and a General Loudspeaker.

#### SPECIFICATIONS

Max. SPL	104dB@1m
Frequency Response	100Hz ~ 5kHz(-10dB)
Directivity	$\pm 10^\circ$ (1kHz, -10dB)
Power	12VDC(12W)
Size/Weight	170×242×250mm / 4.5kg
Input Method	Audio stereo jack(3.5 $\phi$ ) 0.9V peak

➤ PROPA-U50 2Way has a Super Directional Loudspeaker and a General Loudspeaker together.



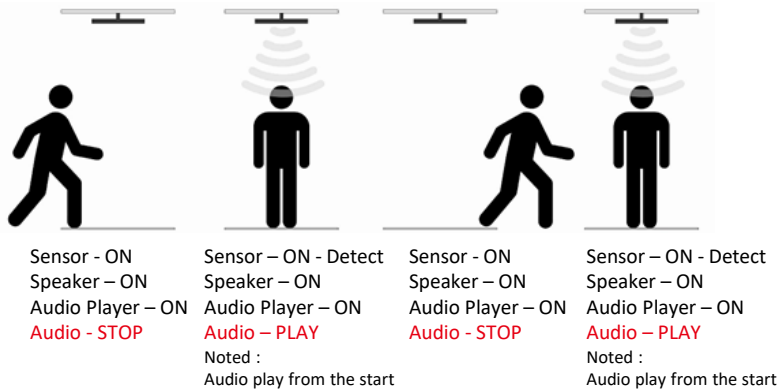
In the case of a Super Directional Loudspeaker,  
there is an area where the sound cannot be heard.  
**“General Loudspeakers allow you to broadcast in this area.”**

### Intelligent Audio Controller

### PROPA-IAC



- Size :150×110×73mm
- Weight : 0.55kg
- With PIR Sensor
- Detecting Human Motion
- Sound Playback on detecting human motion



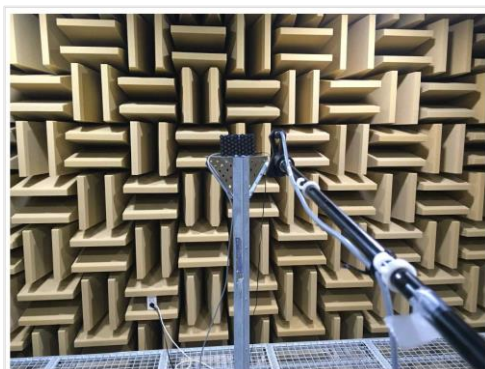
### FUNCTIONS

- Playback/Stop, Forward/Backward buttons
- Volume control
- Repeat one, Repeat all
- Sequence/Random Playback
- Supports Mp3, wave, OGG file
- Supports Sensor On/Off
- Automatic upload of sound sources via USB memory

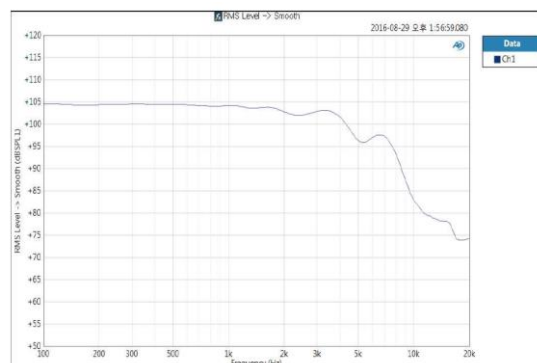
### Directional Loudspeaker System

#### ❖ Frequency Response of PROPA-U50

- Test Report(NSSC-TR-16-0054)
- NSSC(Next Generation Sound Supporting Center) of KETI(Korea Electronics Technology Institute)
- Max. Sound Pressure Level : 104dB
- Frequency Response : 100Hz~5kHz(-10dB condition)



Anechoic Room



Frequency Response

### What is a Super Directional Loudspeaker?

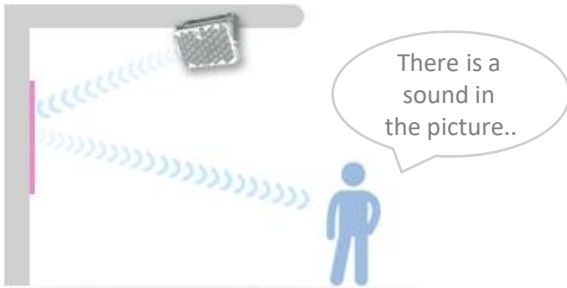
A Super Directional Loudspeaker can send sound to the place which you want to send by emitting sound like a laser. Since ultrasonic waves send sound, the straightness of sound is excellent. Almost no sound can be heard from the back or the sides of the loudspeaker.

#### Main Features of Super Directional Loudspeakers



### “Directivity”

Sound can only be heard in the direction that the loudspeaker is pointing.



### “Reflection of Sound”

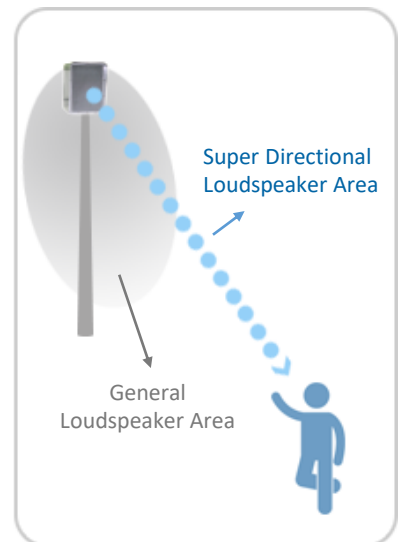
When a sound hits an object, it is reflected.



General Loudspeaker

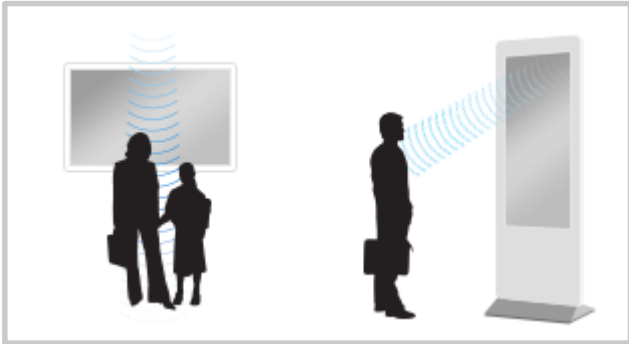


Super Directional Loudspeaker



General Loudspeaker  
+  
Super Directional Loudspeaker

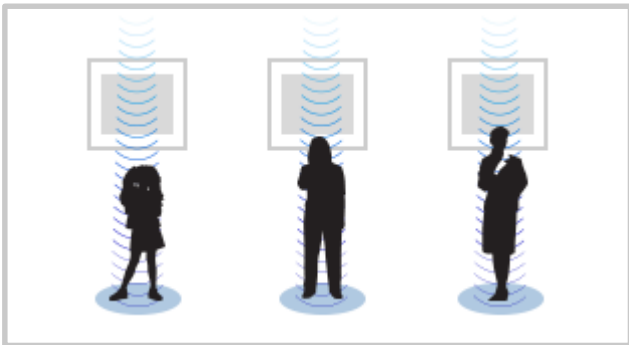
### Applications of Super Directional Loudspeakers



#### Digital Signage Advertising

Each sound does not interfere with each other, and only the sound of the ad you are looking at is heard.

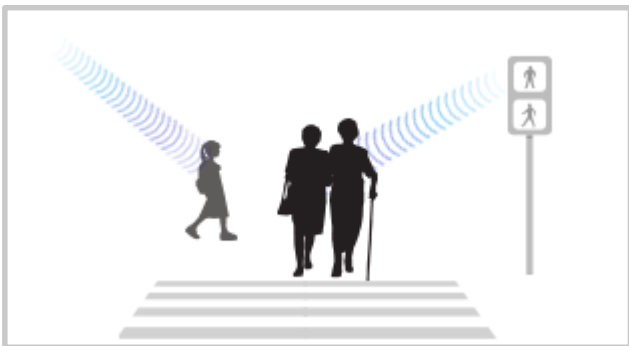
Screens inside buildings such as shopping malls, Cinemas, Subways, Airports, Outdoor Display Boards and Street Advertising



#### Exhibition Advertisement

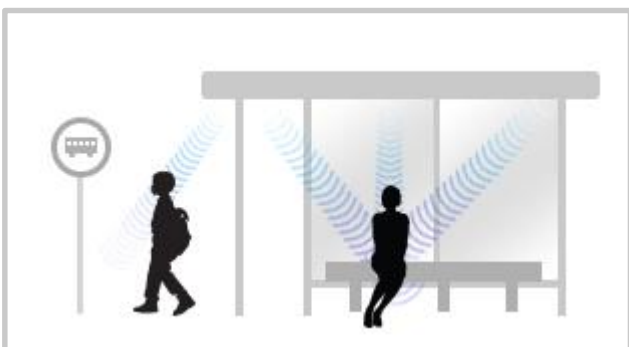
Sound can be transmitted only to the desired area, so effective information can be provided.

Exhibition Halls, Museums, Public Relations Halls, etc.



#### Crosswalk Announcement

The announcement can be delivered to those who need attention without being assimilated to ambient noise.



#### Bus Stop Announcement

Sound can be delivered only to where you want without noise damage to the surrounding areas.