**PROPA-U series**

Super Directional Loudspeakers

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**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. SPL</td>
<td>104dB@1m</td>
</tr>
<tr>
<td>Frequency Response</td>
<td>100Hz ~ 5kHz(-10dB)</td>
</tr>
<tr>
<td>Directivity</td>
<td>±10°(1kHz, -10dB)</td>
</tr>
<tr>
<td>Power</td>
<td>12VDC(12W)</td>
</tr>
<tr>
<td>Size/Weight</td>
<td>158×100×50mm / 1.7kg</td>
</tr>
<tr>
<td>Input Method</td>
<td>Audio stereo jack(3.5Ø) 0.9V peak</td>
</tr>
</tbody>
</table>

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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**

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

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 so it’s suitable for outdoor use.

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th></th>
<th>Max. SPL</th>
<th>Frequency Response</th>
<th>Directivity</th>
<th>Power</th>
<th>Size/Weight</th>
<th>Input Method</th>
<th>Wall Mount</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>105dB@1m</td>
<td>200Hz ~ 5kHz</td>
<td>±10°(1kHz, -10dB)</td>
<td>12VDC(12W)</td>
<td>223×183×115mm / 2.2kg</td>
<td>Audio stereo jack(3.5Ø) 0.9V peak</td>
<td>Up/Down : ±90°</td>
</tr>
</tbody>
</table>
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**

<table>
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<th>Parameter</th>
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<tr>
<td>Max. SPL</td>
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<tr>
<td>Frequency Response</td>
<td>100Hz ~ 5kHz(-10dB)</td>
</tr>
<tr>
<td>Directivity</td>
<td>±10°(1kHz, -10dB)</td>
</tr>
<tr>
<td>Power</td>
<td>12VDC(12W)</td>
</tr>
<tr>
<td>Size/Weight</td>
<td>170×242×250mm / 4.5kg</td>
</tr>
<tr>
<td>Input Method</td>
<td>Audio stereo jack(3.5Ø) 0.9V peak</td>
</tr>
</tbody>
</table>

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.”
PROPA-U series
Super Directional Loudspeakers

Intelligent Audio Controller

**PROPA-IAC**

- Size: 150x110x73mm
- 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.

“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.
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.