

Changes in specifications

The following functions are newly added due to changes in specifications of this device.

Operation modes

New operation modes are added. Due to specifications changes.

Single(zone)[default]: Select this setting when using the PJP-50USB as a stand alone unit. It is suitable for using the unit in a relatively quieter environment. Sound is picked up by Zone Mode.

Single(track): Select this setting when using the PJP-50USB as a stand alone unit. It is suitable for using the unit in a relatively noisy environment. Sound is picked up by Tracking Mode.

Daisy-chain: Select this setting when daisy chaining the PJP-50USBs. Sound is picked up by Zone Mode.

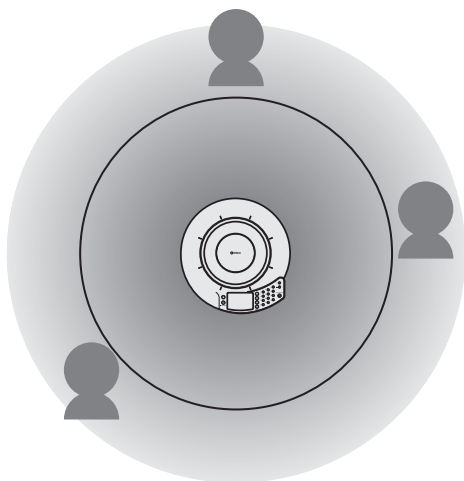
External Spk(s): Select this setting when using PJP-50USB after connecting to external speakers. Sound is picked up by Zone Mode.

Using the keys on the unit

Select [Menu] - [Settings] - [Mode].

Zone mode

It has a wide audio pickup range. It is suitable for a relatively quieter environment.

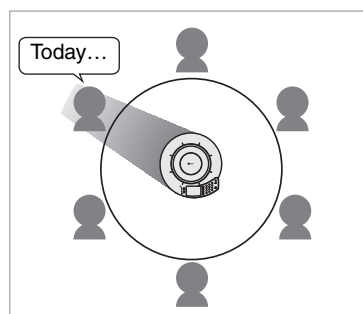


Note

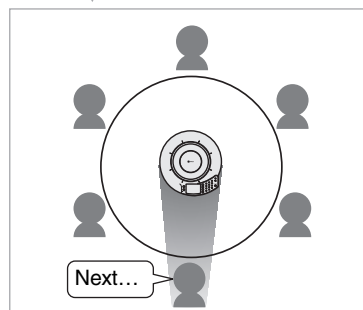
Mic-area can not be changed in Zone Mode. All areas are effective.

Tracking mode

The microphone system automatically tracks the voice of the talker. Since the voice can only be picked up with narrow directivity, noises other than the voice of talker can be greatly reduced. It is suitable to pick up the voice clearly in a relatively noisy environment. Voice of only one person can be picked at a time.



Automatic tracking of the talker's direction



Function for interlocked connection of PJP-50USBs is added

Function for daisy-chaining up to maximum of 4 PJP-50USBs is added. Daisy-chaining of PJP-50USBs allows conducting the meeting in a large room or with large number of participants.

Note

- For using the units after interlocked connection, ensure that all PJP-50USBs have the same firmware.
- You can not use any other Projectphones except PJP-50USB for interlocked connection.
- You need to connect the supplied AC adapters to each PJP-50USB.
- For details on basic operations, refer to the PJP-50USB User's Manual.
- You need to prepare the same number of stereo mini-plug cables (non-resistant) as PJP-50USBs to connect.

- Setting of mic area can not be changed in the daisy-chained PJP-50USBs. All the areas become effective when the units are daisy-chained.



Sound is picked up by Zone Mode when the units are daisy-chained.

Changing the settings

Set "Mode" to "Daisy-chain" on each PJP-50USBs,

1 Select [Menu] - [Settings] - [Mode].

2 Select "Daisy-chain".

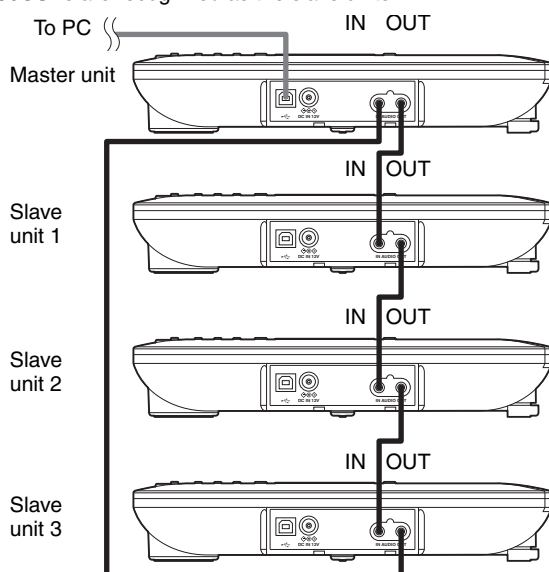
The system will automatically recognize the PJP-50USB connected to the PC via USB as the master unit, and other PJP-50USBs connected to the master unit as the slave units.

Daisy chaining the PJP-50USBs

Using commercially-available stereo mini-plug cables (non-resistant), connect the AUDIO OUT terminal of each PJP-50USB to the AUDIO IN terminal of another PJP-50USB. The following illustration is an example of how to connect the three slave units to the master unit.

Note

Connect only one PJP-50USB to the PC via USB. If multiple units are connected, the system will not work properly. Also, if none of the units are connected, the interlock connection will not work because all of the PJP-50USBs are recognized as the slave units.



To confirm the operation mode configured in each PJP-50USB, select [Menu] - [View Settings], and then check the "Mode" status.

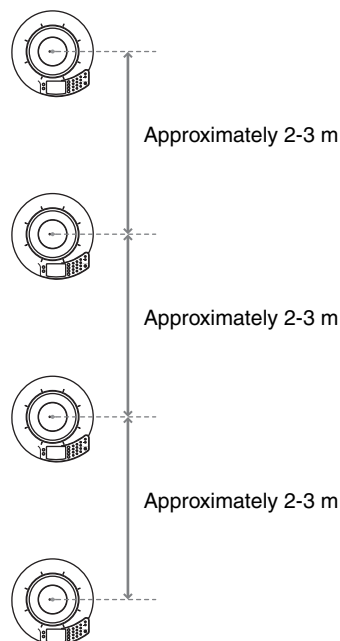
Note

When an interlock connection of PJP-50USBs is made, you cannot adjust AUDIO IN/OUT level manually. AUDIO IN/OUT level are automatically set to values for interconnection.

Installing the PJP-50USBs in the conference room

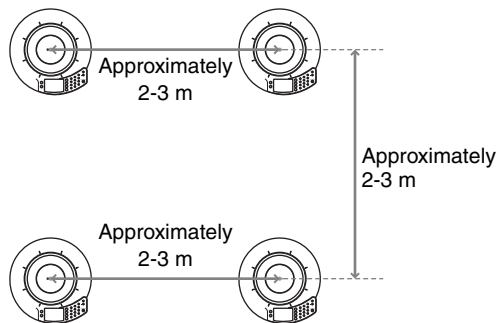
Install the daisy-chained PJP-50USBs by following the examples below. Echo will be produced at the other end if PJP-50USBs are placed too close to each other.

(4 units in a linear arrangement)



Keep a distance of approx. 2-3 m between the centers of each unit.

(4 units in a side-by-side arrangement)



Keep a distance of approx. 2-3 m between the centers of each unit.

Configuring the echo cancellation setting

Configure the acoustic echo cancellation setting depending on your operating environment.

Note

Apply the same echo cancellation setting to all PJP-50USBs.

- **Low(default):** Communication quality is the most stable in this setting.
- **Mid:** Select this setting if echo is produced at the other end while the setting is on “Low” (default).
- **High:** Select this setting if echo is still produced at the other end while the setting is on “Mid”.

Select [Menu] - [Settings] - [AEC Effect].



- If no echo is produced currently, keep the setting on “Low” (default).
- “Mid” and “High” will improve the echo processing capability, but may lower the communication quality.

Adjusting the speaker volume

Adjust the speaker volume via the master unit or PC. Operating the master unit or PC reflects the operation in all daisy-chained PJP-50USBs.

Note

You cannot adjust the speaker volume via the slave units.

Muting the microphones

Mute the microphones via the master unit or PC. Muting the microphones via the master unit of PC will mute all of the daisy-chained PJP-50USBs.

Note

You cannot mute the microphones via the slave units.

Function for connecting external speakers is added

Function of connecting external speakers to PJP-50USB has been added. Connecting external speakers increases the volume level in the meeting.

Note

- When using the unit after connecting external speakers, audio is not reproduced from the speakers of PJP-50USB.
- Use the external speakers with built-in amplifier. (Speakers tested: Yamaha MSP3)
- For details on basic operations, refer to the PJP-50USB User's Manual.
- Commercial stereo cable (non-resistant) is required for connecting PJP-50USB to external speakers. AUDIO OUT terminal of PJP-50USB becomes stereo mini jack.
- You can not change the mic area in external speaker mode. All the areas become effective.



Audio is picked up by Zone Mode when external speakers are connected.

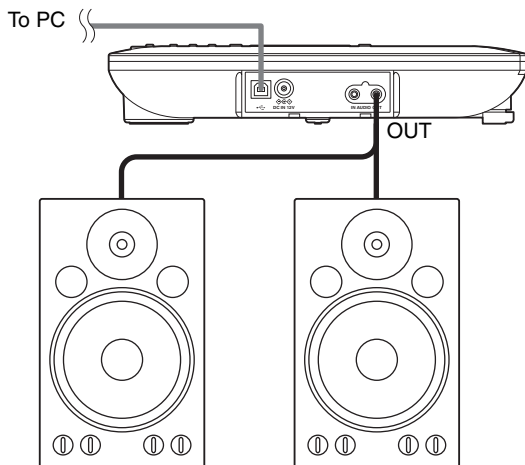
Changing the settings

Set the “Mode” of to PJP-50USB “External Spk(s)”.

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- 1 Select [Menu] - [Settings] - [Mode].
 - 2 Select “External Spk(s)”.
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Connecting the external speakers

Connect the external speaker (one or two) to AUDIO OUT of PJP-50USB using commercially available stereo cable (non-resistant). The following diagram is an example of connecting 2 Yamaha MSP3 to PJP-50USB.



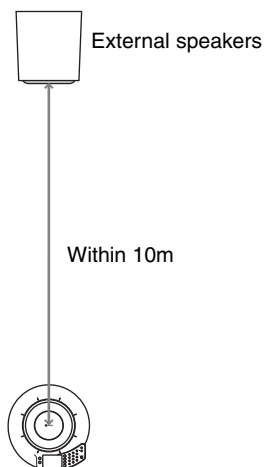
To confirm the operation mode configured in each PJP-50USB, select [Menu] - [View Settings], and then check the "Mode" status.

Note

AUDIO OUT level can not be changed in external speaker mode. AUDIO OUT level is automatically set to the predefined level for external speaker connection.

Installing in the conference room

Install PJP-50USB and external speakers by following the examples below.



Place the external speakers within 10m from PJP-50USB.

Configuring the echo cancellation setting

Configure the acoustic echo cancellation setting depending on your operating environment.

- **Low**(default): Communication quality is the most stable in this setting.
- **Mid**: Select this setting if echo is produced at the other end while the setting is on "Low" (default).
- **High**: Select this setting if echo is still produced at the other end while the setting is on "Mid".

Select [Menu] - [Settings] - [AEC Effect].



- If no echo is produced currently, keep the setting on "Low" (default).
- "Mid" and "High" will improve the echo processing capability, but may lower the communication quality.

Adjusting the speaker volume

To adjust the volume of speakers, set the volume of PJP-50USB and Web conferencing system to maximum before adjusting the volume of external speakers.

Note

- When setting the volume of speakers of PJP-50USB and Web conferencing system to maximum, adjust the volume of external speakers only after setting their volume to minimum.
- Adjusting the volume of external speakers before setting the volume of speakers of PJP-50USB and Web conferencing system to maximum may generate echo at the other end.
- Adjust the volume of speakers so that the sound does not crack. If the sound is cracking, it may produce echo at the other end.