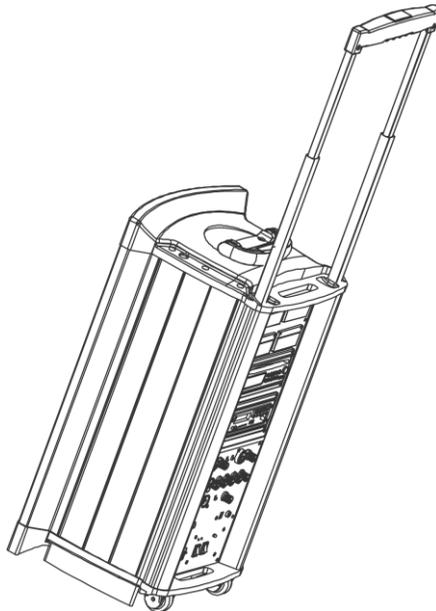


CHIAYO

Operation manual

VICTORY 2000

Portable Wireless PA System



CHIAYO ELECTRONICS CO., LTD.

Important safety instructions

- Read all of the instructions before the product is operated.
- Keep these instructions well for future reference.
- Follow all of the warnings and instructions when installing, setting up and using the product.
- Only clean the product when it is not connected to the power supply system. Clean only with a dry cloth.
- Keep ventilation openings unblocked and follow with the manufacturer's instructions for installation.
- Do not immerse product in any liquid or expose to heat or moisture
- Keep the complete polarized or grounding type plug without any modification. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wider blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Power supply cords should be well routed to prevent from being walked on or pinched by items placed upon or against them, particularly at plugs, convenience receptacles, and the point where they exit from the product.
- Use only manufacturer authorized or recommended accessories.
- Use only with a cart, stand, tripod or accessories specified or provided by Chiayo. Be careful when using a cart to avoid injury from tip-over.
- Unplug the product during an electrical storm or when unused for long periods of time.
- Never disassemble, modify or service the product. Any unauthorized modifications may result in personal injury and/or product failure. Additionally, your warranty will be void.

Warning

Please read and follow the instructions in this manual thoroughly to obtain optimum results from this unit. We also recommend that you keep this manual handy for future reference.

Safety Precautions

- Be sure to read the instructions in this section carefully before use.
- Make sure to observe the instructions in this manual as the conventions of safety symbols and messages regarded as very important precautions are included.

Safety symbols and messages described below are used in this manual to prevent bodily injury and property damage which could result from mishandling. Before operating your product, read this manual first and understand the safety symbols and messages so you are thoroughly aware of the potential safety hazards.



WARNING

Indicates a potentially hazardous situation which, if mishandled, could result in death or serious personal injury.



CAUTION

Indicates a potentially hazardous situation which, if mishandled, could result in moderate or minor personal injury, and/or property damage.

Make sure to observe the following handling precautions so that a fire or personal injury does not result from leakage or explosion of the battery.

- Do not short, disassemble, heat or put the battery into a fire.
- Never charge batteries of the type which are not rechargeable.
- Do not solder a battery directly.
- Be sure to use the specified type of battery.
- Note the correct polarity when inserting a battery in the unit.
- Avoid locations exposed to the direct sunlight, high temperature and high humidity when storing batteries.



WARNING

To prevent the electromagnetic wave from badly influencing medical equipment, make sure to switch off the unit's power when placing it in close proximity to the medical equipment.



CAUTION

Battery discharges naturally according to a certain pattern even when not in use. For best performance and a prolonged lifespan, battery **should** be charged regularly after every use or every month when the system is in storage and not being used! CD player optical pick up head is a very delicate device and sensitive to humidity. Please avoid using it in high humidity area to avoid damage!

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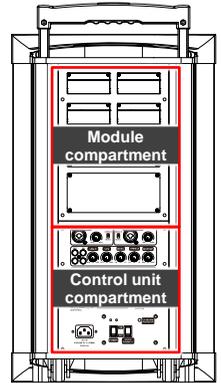
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1. Instruction

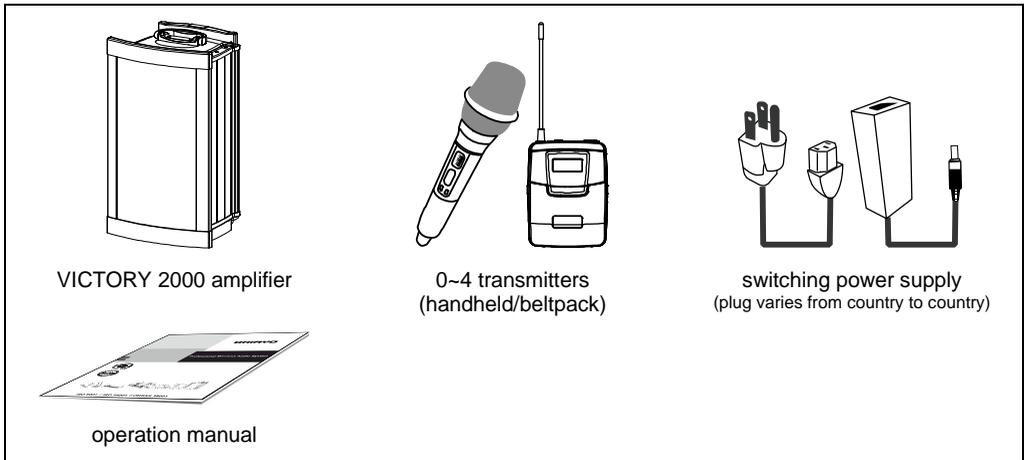
Congratulations and thank you for purchasing this all-in-one portable sound system. To ensure a trouble-free operation, please read the manual thoroughly to fully understand its controls and functions.

The rear panel of these portable sound systems is divided into 2 sections:

1. Module compartment
2. Control Unit compartment



1-1 In the box



VICTORY 2000 amplifier

0-4 transmitters
(handheld/belt-pack)

switching power supply
(plug varies from country to country)

operation manual

1-2 Optional related products

■ **Modules & transmitters** (For more information about transmitter, please refer to its user manual)

SDR-8200M IrDA	Ture diversity receiver module	SQ-6100 IrDA SQ-5100 IrDA	Handheld microphone
SDR-8100M IrDA	Diversity receiver module	SM-7100 IrDA SM-6100 IrDA	Belt-pack transmitter
DWR-5410M	2.4G digital receiver module	DH-5400 DB-5400	Handheld digital microphone Belt-pack digital transmitter
RP-5100M	Repeater module	DPRB-600M	MP3 recorder player + bluetooth receiver module

■ **Speakers**

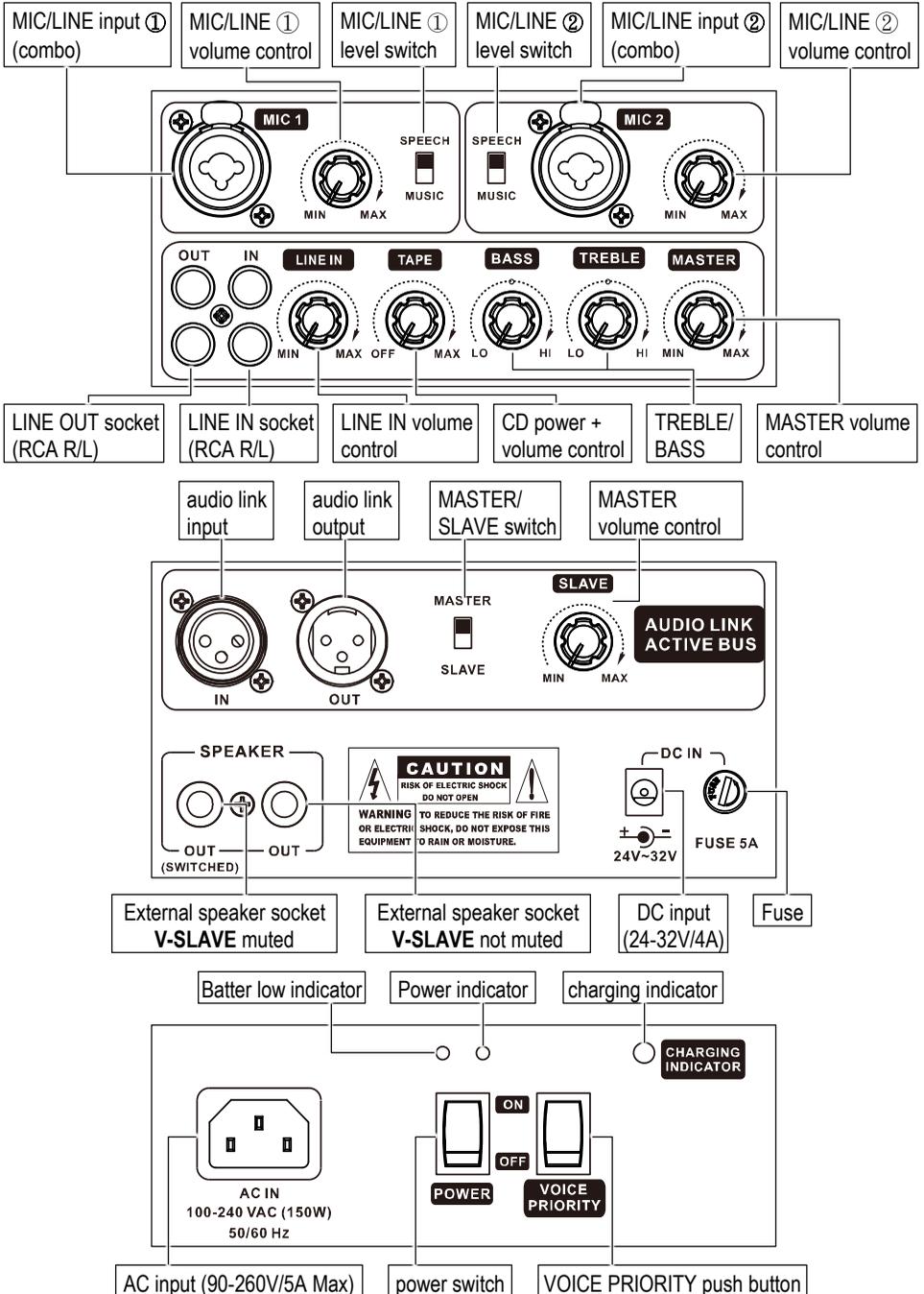
V-SLAVE	Active companion powered speaker	V-SP	Passive companion speaker
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■ **Accessories**

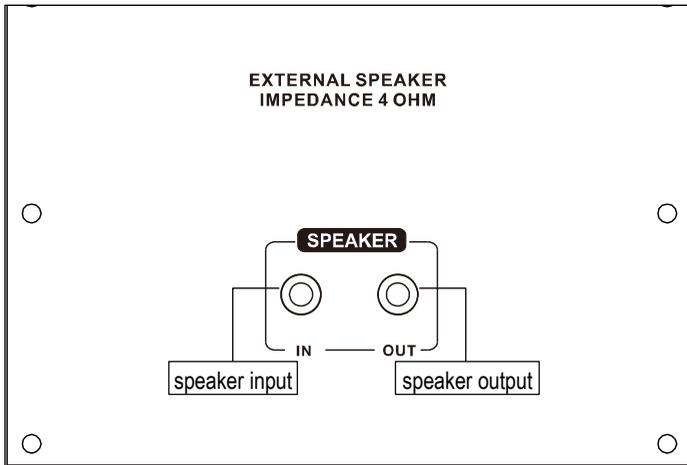
ST-50	Tripod stand: standard	ST-51	Tripod stand: height adjustable
DC-50	Weather proof dust cover	DM-series	Wired microphone, please refer to CHIAYO website .

VICTORY 2000 Portable Wireless PA System

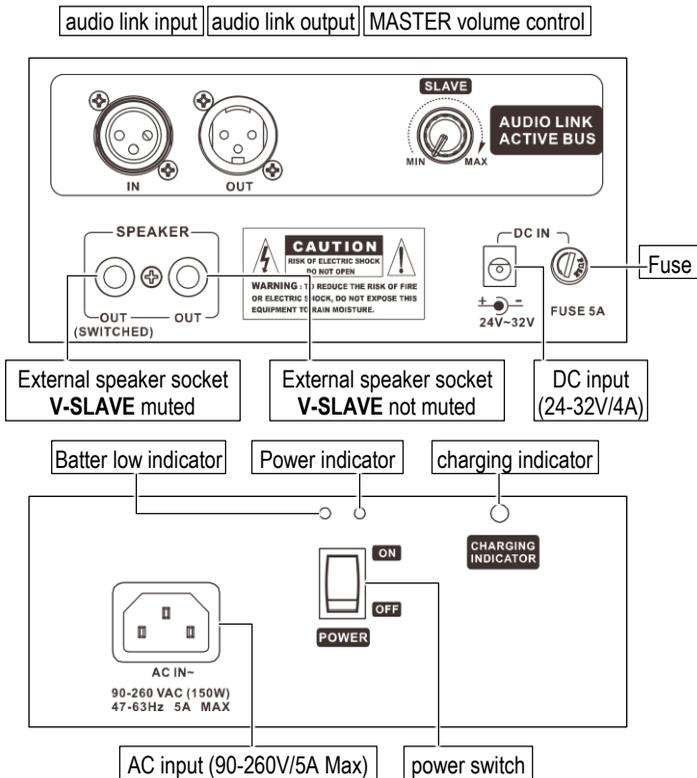
1-3 Parts and functions of VICTORY 2000



1-4 Parts and functions of passive companion speaker V-SP

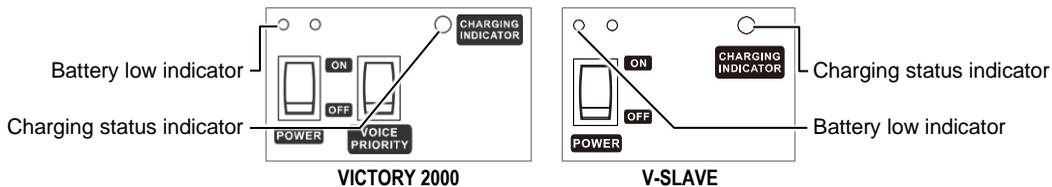


1-5 Parts and functions of active companion powered speaker V-SLAVE



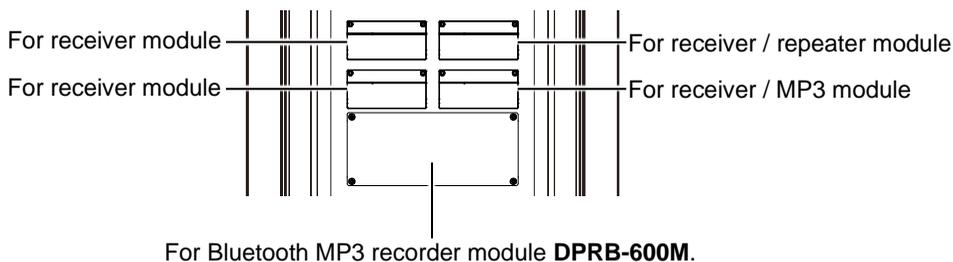
1-6 Charging the battery

This amplifier uses either two lead-acid batteries. If the battery indicator turns solid RED, the battery might not be sustainable for long operation and needs to be charged.

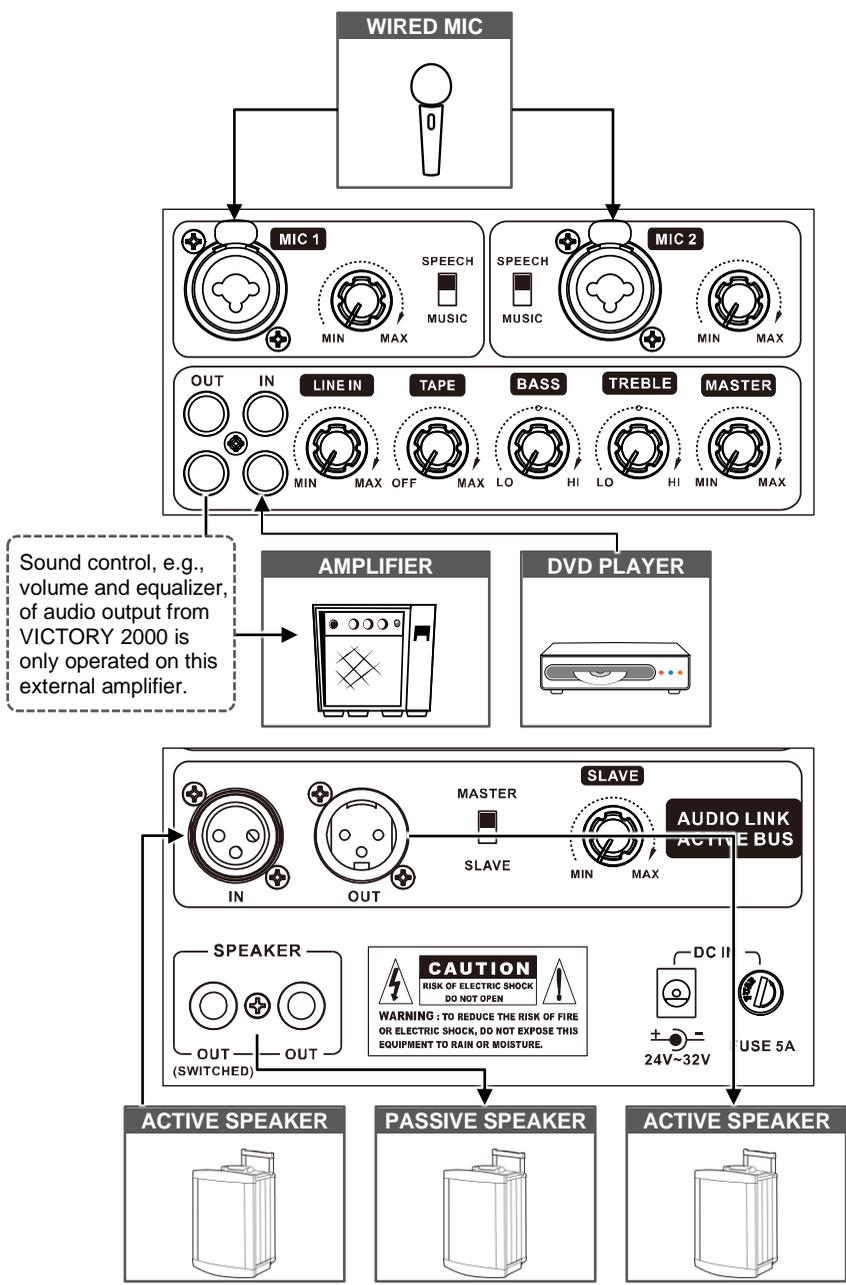


Charging indicator	Condition
Flashes RED	During recharging
Solid GREEN	Fully charged

1-7 Module compartment



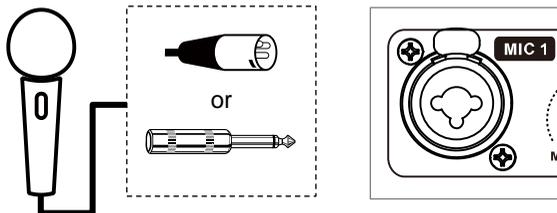
1-8 Connection with external audio sources



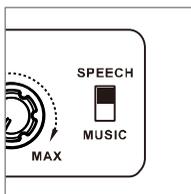
2. Settings and Operations

2-1 Using the wired microphone (MIC 1, MIC 2)

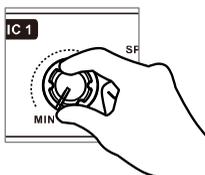
- 1** Plug a wired microphone with a 6.3mm or XLR connector to **MIC 1** or **MIC 2**.



- 2** The nearby **SPEECH/MUSIC** switch filters out low frequencies from an audio signal. In **SPEECH** mode, frequencies lower than 200 Hz will be removed, thus, unwanted bass noises won't be heard. In **MUSIC** mode, no frequencies are cut so all bass sound can be heard and recorded.

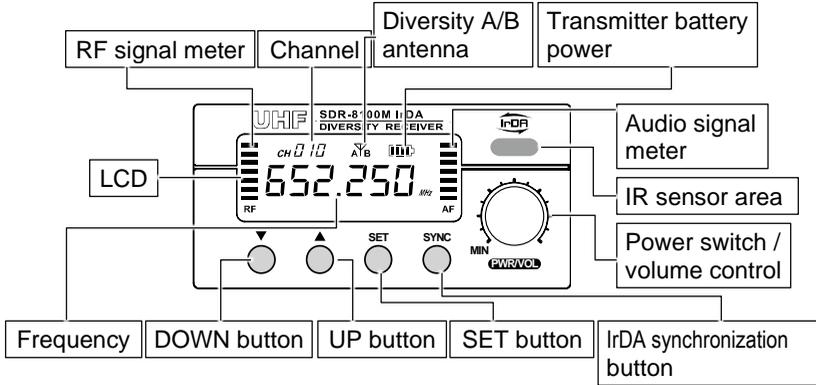


- 3** Turn on master POWER and then adjust the specific (either **MIC 1** or **MIC 2**) volume control to desired level.

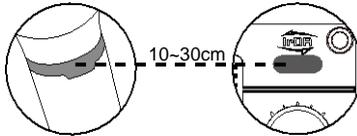


2-2 Using the wireless receiver

2-2-1 Parts and functions



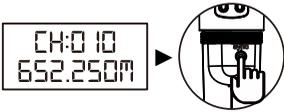
2-2-2 Channel synchronization of the receiver and transmitter



Align infrared areas of the receiver and transmitter within 10~30cm.

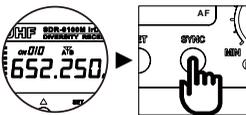
■ Changing receiver's channel

- 1 Press the synchronization button of the transmitter.
- 2 The transmitter's LED will glow to denote synchronization signal transmitted.
- 3 The channel number on the receiver's LED will become the same as the transmitter's, which means the receiver has been successfully synchronized.



■ Changing transmitter's channel

- 1 Press the SYNC button of the receiver.
- 2 The transmitter's LED will glow to denote synchronization signal received.
- 3 The channel number on the transmitter's LCD will become the same as the receiver's, which means the transmitter has been successfully synchronized.



If it doesn't work check that you have the IR sensor panels aligned, that they are facing each other, devices are within 10~30cm of each other, and try again.

2-2-3 Channel scanning

For an interference-free operation, a cleaner channel might be necessary if the current one receives too much interference. To operate the scanning:

- 1 Press ▼(down) or ▲(up) button to make the frequency icon **FREQ** appear on the bottom.



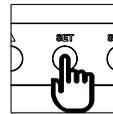
- 2 Hold **SET** button until this icon **FREQ** flashes to denote readiness for setting.



- 3 Press ▼(down) or ▲(up) button to find and locate a clear, interference-free channel.



- 4 After a channel is chosen, press **SET** button or wait 5 seconds to store the setting.



2-2-4 Squelch (SQ) setting

When interference is encountered try reducing the sensitivity of the receiver, thus less susceptible to interference. To operate the squelch setting:

- 1 Press ▼(down) or ▲(up) button to turn to the squelch setting page.



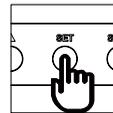
- 2 Hold **SET** button until this icon **SQ** flashes to denote readiness for setting.



- 3 Press ▼(down) or ▲(up) button to select a new squelch level between **01** and **10**. The default level is **01**.



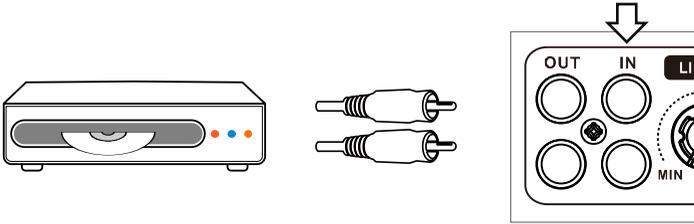
- 4 After a level is chosen, press **SET** button or wait 5 seconds to store the setting.



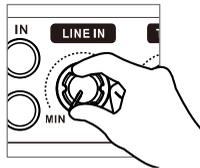
Since increasing the squelch level will also reduce the reception distance, it's recommended to choose the lowest level that can eliminate the interference. If this still does not solve the problem it means this frequency is not suitable. Adjust the squelch back to its default level (**LE-01**) and use the scan function to locate a clear, interference-free channel.

2-3 Music audio input-DVD player (LINE)

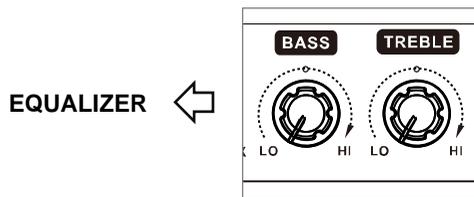
- 1** Plug the **RCA R/L** audio cable to the **LINE IN** jacks.



- 2** Turn on master **POWER** and then adjust **LINE IN** volume control to desired level.



- 3** **BASS / TREBLE** equalizer (refer to P.13) can be adjusted individually.



2-4 EQUALIZER for MUSIC

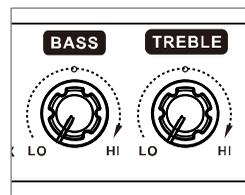
EQUALIZER adjustment is actually used to increase or reduce the high/medium/low frequency component of the speaker's restored sound. It is so-called raising or attenuating TREBLE/BASS via frequency-specific volume knobs to improve human voices or make musical instruments' sound more prominent. According to the scale marks on the panel, clockwise adjustment is to increase and boost and opposite direction to decrease and attenuate.

Adjust the level of high frequency (TREBLE) and low frequency (BASS) respectively. All signals have been balanced by the high and low sounds after entering the amplifier so it is not necessary to adjust the EQUALIZER during the output to the speaker. It is recommended to maintain the position of BASS and TREBLE at just 12 o'clock.

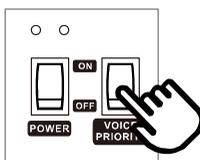
KNOB	BASS	TREBLE
FUNCTION	increase or reduce the low frequency component of the sound	increase or reduce the high frequency component of the sound
RANGE	-12 dB ~ +12 dB	
DEFAULT	12 o'clock	

Adjustment reference:

- BASS:** It is the basic part of the sound. It accounts for 70% of the entire audio energy and is an important component to display the music style. When appropriate, the BASS is relaxed and the sound is full and soft. If you feel the sound is thin, you can moderately increase the BASS. If you feel the sound is muffled, not clear, or too nasal, you can moderately reduce the BASS.
- TREBLE:** It's the frequency that affects the sound layering. If you feel that the sounds of instruments such as Piccolo and Flute are too prominent, or the tooth sound of the voice is too heavy and the tone is sharp, you can moderately reduce the TREBLE.



2-5 Voice Priority



Voice Priority operation is only necessary when CD/USB/MP3 is playing.

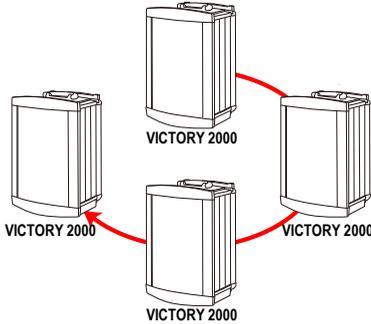
When the Voice Priority switch is ON, the ducking function will be activated. While the music is playing, a voice input from either a **WIRED or WIRELESS MICROPHONE** will temporarily override and lower the volume of the background music and voice could be heard more clearly. Background music will return to its original setting when no audio input is entering the microphone after certain seconds. However, if the microphone is not switch off, the reentering of music into the microphone will also activate the voice priority function.

3. Application

3-1 Active audio link: VICTORY 2000 to VICTORY 2000

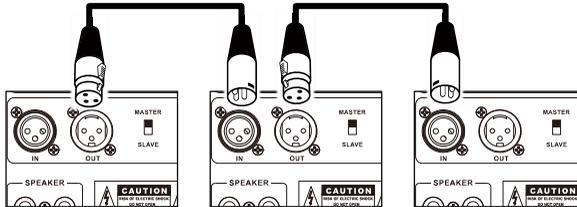
VICTORY 2000 operates as the **MASTER** as well as companion unit in an audio link (wired) configuration.

- 1 Connect one **VICTORY 2000** after the other via the **ACTIVE IN** and **ACTIVE OUT** jacks.

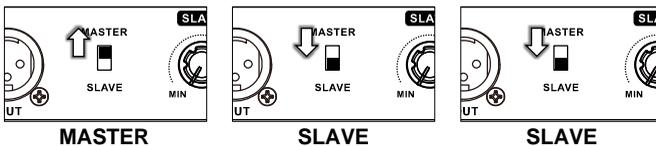


Important

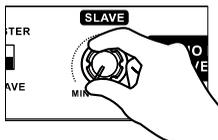
- Max cable length: $\leq 20\text{m}$
- Recommended linking no more than 5 units. Too many units may result in audio delay.



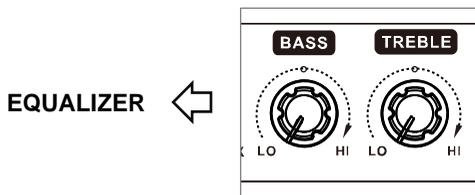
- 2 Slide the master **VICTORY 2000**'s **MASTER-SLAVE** switch to **MASTER** position and slave **VICTORY 2000** to **SLAVE** position.



- 3** Turn on master POWER of **VICTORY 2000** and then adjust SLAVE volume control to desired level. The power of slave **VICTORY 2000** will be automatically activated as soon as the master **VICTORY 2000** is turned ON, regardless of whether its power switch is OFF or ON. The slave **VICTORY 2000**'s volume can be individually adjusted on its control panel.



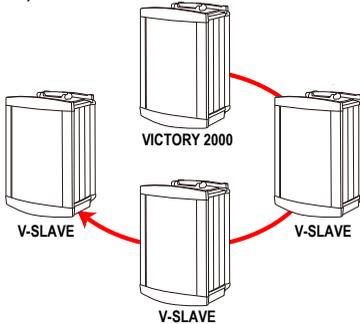
- 4** BASS / TREBLE equalizer (refer to P.13) can be adjusted individually.



3-2 Active audio link: VICTORY 2000 to V-SLAVE

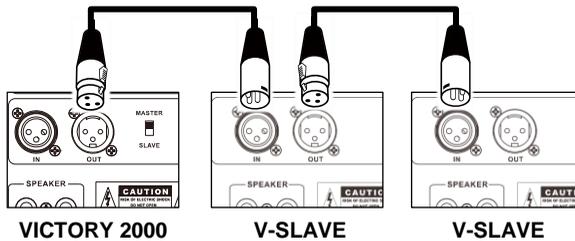
VICTORY 2000 operates as the MASTER unit in an audio link (wired) configuration with active companion powered speakers **V-SLAVE**.

- 1 Connect the **VICTORY 2000** (master unit) and **V-SLAVE** (active companion powered speakers) via **ACTIVE OUT** and **ACTIVE IN** jacks.

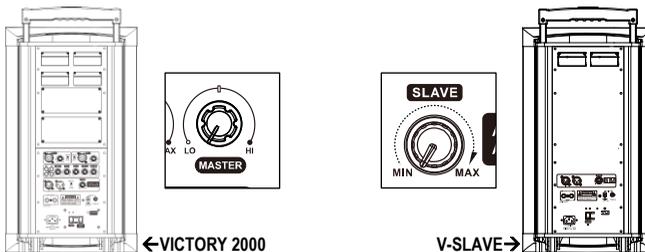


Important

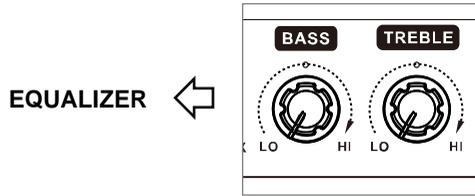
- Max cable length: $\leq 20\text{m}$
- Recommended linking no more than 5 units. Too many units may result in audio delay.



- 2 Turn on master **POWER** of **VICTORY 2000** and then adjust **SLAVE** volume control to desired level. The power of **V-SLAVE(s)** will be automatically activated as soon as the **VICTORY 2000** is turned ON, regardless of whether the **V-SLAVE's** power switch is OFF or ON. The **V-SLAVE's** volume can be individually adjusted on its control panel.

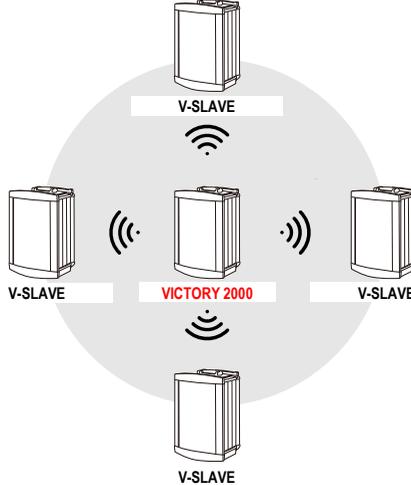


3 BASS / TREBLE equalizer (refer to P.13) can be adjusted individually.

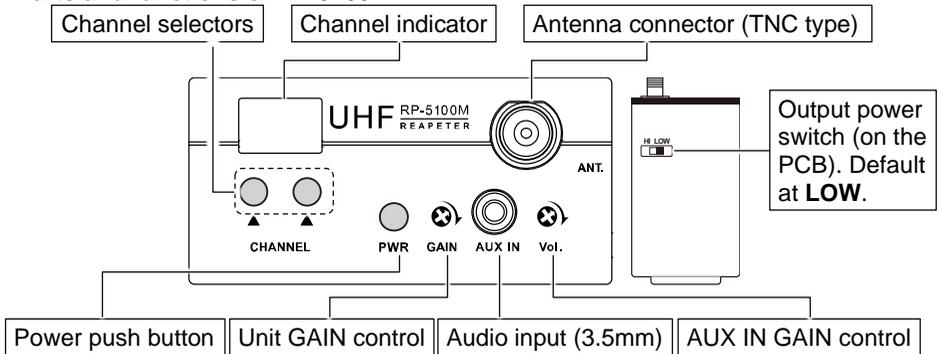


3-3 Wireless audio link: repeat all audio to linked VICTORY 2000 / V-SLAVE

VICTORY 2000 operates as the MASTER unit in a wireless audio link with other **VICTORY 2000** or active companion powered speakers **V-SLAVE**. The repeater module **RP-5100M** of master **VICTORY 2000** can transmit all audio signals, including wired/wireless microphone, music, instrument etc., to other units installed with receiver module.

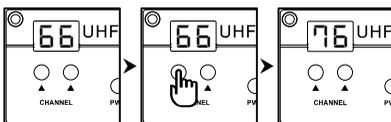


3-3-1 Parts and functions of RP-5100M

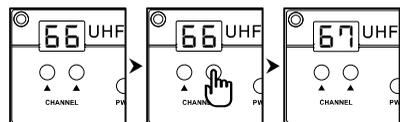


3-3-2 Changing channels

Press LEFT ▲ button to increase the TENS-digit channel number.

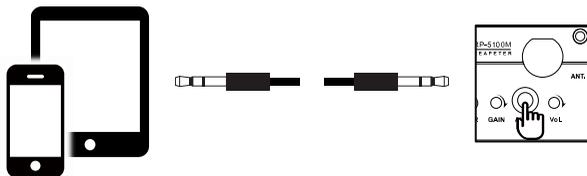


Press RIGHT ▲ button to increase the UNIT-digit channel number.

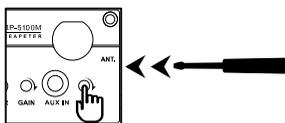


3-3-3 Music audio input (AUX IN)- Smart phone / tablet / MP3 player

- 1 Connect your device to the 3.5mm jack of **AUX IN** with a 3.5mm **3-pole stereo** audio cable.

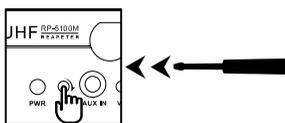


- 2 Use a mini screw driver to adjust the volume of the input audio.



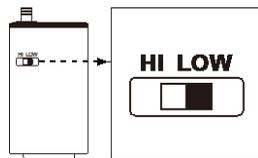
3-3-4 Adjust internal audio gain level

Use a mini screw driver to adjust the volume of audio sources in the master unit.

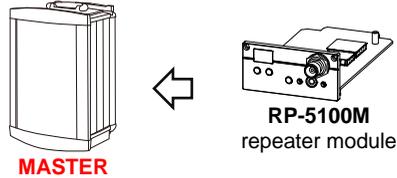


3-3-5 Output power setting

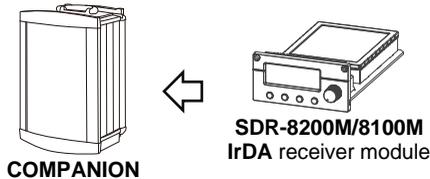
- **LOW** position (default) for low output power and **HI** for high output power.
- Low output power will reduce the RF transmission distance and high output power will extend the possible RF transmission distance.
- If the module is installed on battery-powered amplifiers, remember **HIGH** output power places slightly more load on the battery and will reduce operating duration faster than **LOW** output power.



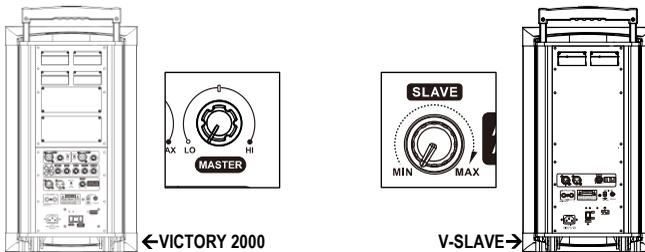
- 1** Install a repeater module **RP-5100M** on the master **VICTORY 2000**. Set the channel/frequency on the repeater module which will be used to transmit signals to other units. The channel/frequency must be different from other modules on all master and companion units.



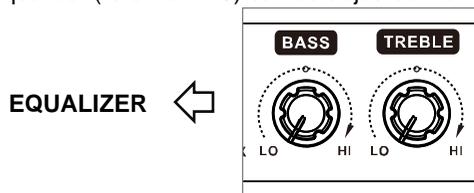
- 2** Install a receiver module **SDR-8200M/8100M IrDA** on companion **VICTORY 2000** or **V-SLAVE**. Set the channel/frequency on the receiver module which will be used to receive signals from the master **VICTORY 2000**. Both repeater and receiver module must be the same channel/frequency.



- 3** Turn on master **POWER** of **VICTORY 2000** and **EACH V-SLAVE** and then adjust master volume control to a desired level. Turn on power of **EACH V-SLAVE** and then adjust the volume control to a desired level.



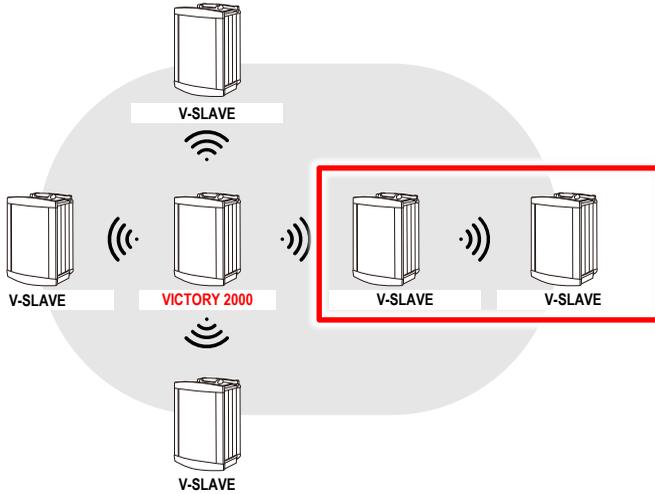
- 4** **BASS / TREBLE** equalizer (refer to P.13) can be adjusted individually.



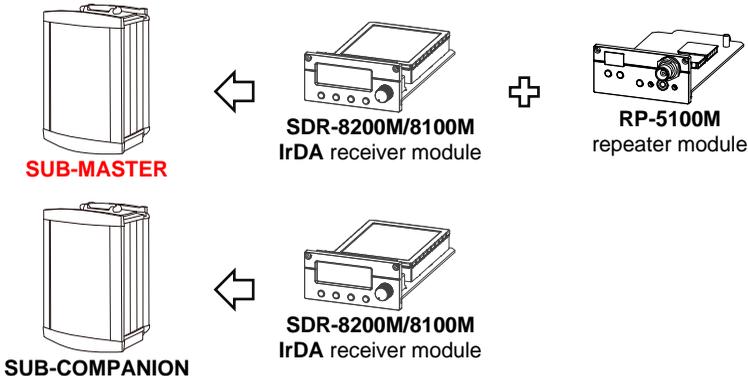
3-4 More extension

To reach wider coverage, the companion unit **VICTORY 2000 / V-SLAVE** can serve as SUB-MASTER to transmit signals to SUB-COMPANION units.

Important: Please do not set the SUB-COMPANION as next MASTER in order to guarantee best sound quality.

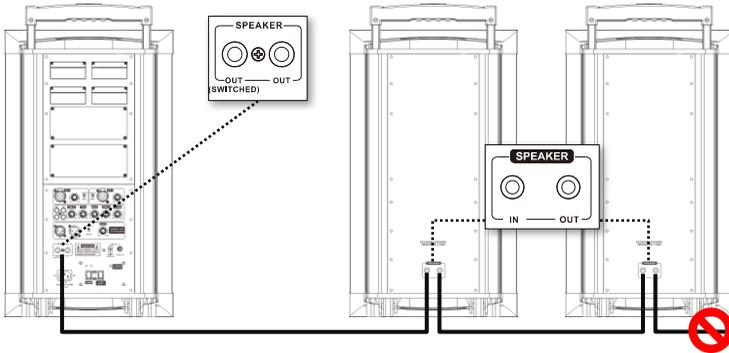


For this purpose, please install a repeater module on the SUB-MASTER unit and a receiver module on SUB-COMPANION units (same procedures as STEP 1 & 2). Both repeater and receiver module must be the same channel and same frequency which must be different from former repeater and receiver module.

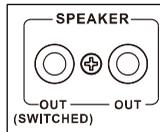


3-5 Connecting VICTORY 2000 / V-SLAVE to 1 or 2 passive companion speakers

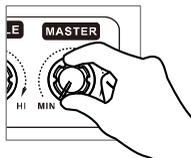
- 1** Plug the external speaker's audio cable with a 6.3mm connector to the speaker input socket of passive companion speaker **V-SP** or a 4–8Ω load speaker. The **V-SP** speaker can link to another **V-SP**. Two **V-SP** at max in each daisy link. Max cable length less than 20m.



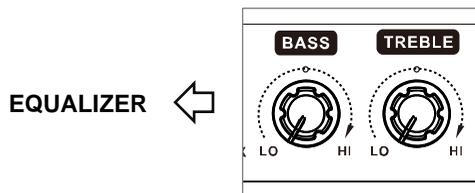
- 2** There are two output jacks for external speakers. When connected from the LEFT one (SWITCHED), the **V-SLAVE** will be MUTED and only the external speaker **V-SP** will broadcast. When connected from the right jack, both the **V-SLAVE** and **V-SP** will broadcast.



- 3** Turn on master POWER and then adjust its individual volume control to a desired level.



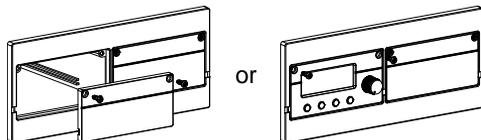
- 4** BASS / TREBLE equalizer (refer to P.13) can be adjusted individually.



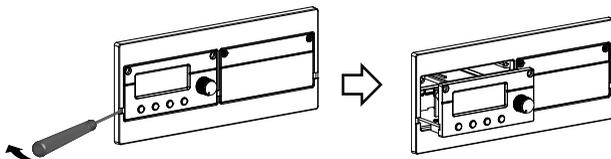
4. Installing or replacing a receiver/repeater/MP3 module

There are four slots above the control panel and two on **MB-50** module bracket for installing optional modules which includes receiver, repeater and MP3 recorder modules.

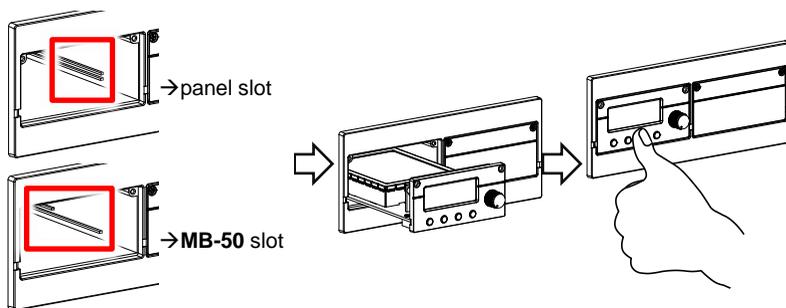
- 1 Use a Phillips-head screwdriver (not included) to remove the screws of the blank cover panel or current module's panel.



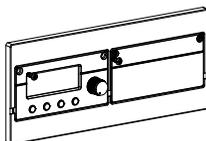
- 2 To replace module, use a mini flat-head screw driver (not included) to pry up the current module's panel and remove the module.



- 3 Gently insert the module into the slot by aligning its edges to the guide rails. Then push the panel to make sure it's been firmly connected.



- 4 Tighten up the screws.



5. FAQ & useful operation tips

1 How to adjust the best volume?

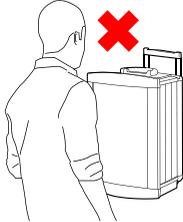
For CHIAYO PA system with a master volume control, turn the master volume to 12 o'clock and then gradually adjust the volume of audio inputs (microphone, CD, MP3, etc.) from minimum to an appropriate level. Then adjust master volume on demand of application. CHIAYO PA systems have volume distortion indicators that prevent distortion even at maximum volume.

2 Is it possible to play music storing on external devices via wireless amplifier?

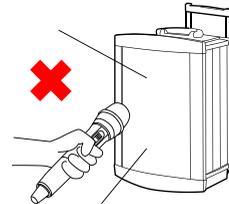
Yes. CHIAYO's wireless amplifiers have auxiliary audio input(s) LINE IN (or AUX IN) for connection with external devices such as notebook, mobile phones or tablets. (Medium and larger-sized wireless amplifiers (**APEX**, **CHALLENGER**, **STAGE** and **FOCUS** series) can also be installed with MP3 recorder modules and equipped with remote control for more versatile functionality.) Music streaming from mobile phone / tablet / notebook is available via built-in BLUETOOTH receiver.

3 How to avoid or reduce feedback?

■ Do not stand in front of the speaker when using the microphone.



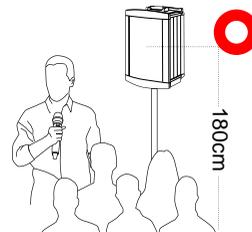
■ Do not point the wireless microphone towards the speaker.



■ Use the microphone behind the speaker as possible.



■ Locate the wireless amplifier between the speaker and the audience with the speaker facing the crowd. Place the wireless amplifier on a tripod stand and above the head of audience (about 180cm).



■ Turn down the volume if necessary.

4 Is it possible to record the sound of Microphone or external devices when using VICTORY 2000?

Yes. Install an **MP3 recorder player (DPR-500m)** on **VICTORY 2000** to obtain recording function.

5 Does a wireless amplifier need to be installed with a tripod? What is the ideal height for Amplifier above the ground?

Higher position of a wireless PA will be helpful for signal reception. It can be mounted on the tripod and above the ear or head of the audience. If the tripod is not allowed on site, you can also raise it on a table or a flat object while the amplifier leaves the ground by 1 meter or more.

6 Will wireless amplifier automatically power off once it is fully charged? Do I need to unplug the power cord?

Yes. Since all CHIAYO amplifiers have an overcharge protection circuit that automatically power off at full charge and prevent damage to the system. However, please unplug the power cord after fully charging to ensure the safety.

7 How to charge and maintain the battery of wireless amplifier?

After plugging the power cable of the wireless amplifier into a standard outlet, the charging LED will glow or flash indicative of charging status. The wireless amplifier can be charged whether in use or power off.

Lead-acid batteries/lithium batteries have no memory effect. Please charge them up immediately after each use, no matter how much power they left. If the battery is not charged for a long time, it may cause the battery to be over-discharged and damaged, shortening the battery life or even making it impossible to charge normally.

Lithium battery should be fully charged at least once every 6 months. Lead-acid battery should be fully charged at least once every 3 months.

If the battery is fully charged after usage without over-discharging, the battery life can reach about 2 years.

8 Is it possible that VICTORY 2000 can work as amplifier only? Can I use only one or more microphones? How many wireless microphones can be used at most?

The wireless receiver, transmitter and MP3 recorder player (DPR-500m) for **VICTORY 2000** are modular products which can be installed optionally according to application and requirement.

Maximum 4 wireless microphones can be used simultaneously.

9 What is the difference between lead-acid batteries and lithium batteries?

Lithium battery: light weight, electronic circuit protection, long life and more expensive.
Lead-acid battery: heavy weight, short life and more affordable.

6. Maintenance-free Lead-acid and Lithium batteries

Cautions when using the battery

1. Lead-acid batteries/lithium batteries have no memory effect. Please charge them up immediately after each use, no matter how much power they left. If the battery is not charged for a long time, it may cause the battery to be over-discharged and damaged, shortening the battery life or even making it impossible to charge normally.
2. Usage temperature can't be lower than -10°C nor higher than 50°C .
3. It's strictly forbidden to let the battery contact with any liquid. Do not immerse the battery in water or get it wet. After the battery is exposed to water, a decomposition reaction may occur, which may cause battery self-ignition or even cause an explosion.
4. It is forbidden to use the battery when it has swelled, leaked, or the packaging is damaged.
5. It is forbidden to disassemble the battery in any way or pierce the battery with a sharp object, so as not to cause the battery to catch fire or even cause an explosion.
6. The liquid inside the battery is highly corrosive. If it leaks, please do not touch it. If the internal liquid splashes on human skin or eyes, please immediately rinse with clean water for at least 15 minutes before seeking medical attention.
7. It is forbidden to use wires or other metal objects to short-circuit the positive and negative electrodes of the battery.

Cautions when charging the battery

1. Lead-acid batteries/lithium batteries have no memory effect. Please charge them up immediately after each use, no matter how much power they left. If the battery is not charged for a long time, it may cause the battery to be over-discharged and damaged, shortening the battery life or even making it impossible to charge normally.
2. Please use the power supply specified by CHIAYO for charging.
3. The CHIAYO amplifier has a protection circuit to prevent overcharging. However, it's recommended that the charging time not exceed 12 hours. Please disconnect the power supply when fully charged.
4. Charging temperature can't be lower than 0°C nor higher than 40°C .
5. When charging, please place it on the hard ground, such as cement, and there should be no flammable or combustible materials around. Please pay attention to the charging process to prevent accidents.
6. It will automatically stop charging when fully charged. After the battery is fully charged, it is recommended to disconnect the amplifier from the power supply.
7. When the power supply is not disconnected and the amplifier is not in use, if the battery is fully charged and then recharged again soon after, it means that the battery is aging and cannot store power. Please replace the battery to ensure enough time for operation.

Cautions when storing the battery

1. Lead-acid batteries/lithium batteries have no memory effect. Please charge them up immediately after each use, no matter how much power they left. If the battery is not charged for a long time, it may cause the battery to be over-discharged and damaged, shortening the battery life or even making it impossible to charge normally.
2. Lithium batteries will automatically discharge in storage. If they are not charged for a long time, they will over discharge that causes a decrease in capacity and damage to the batteries that can no longer be charged normally. It should be fully charged at least once every 6 months.
3. Lead-acid batteries will automatically discharge in storage. If they are not charged for a long time, they will over discharge that causes a decrease in capacity and damage to the batteries that can no longer be charged normally. It should be fully charged at least once every 3 months.
4. Storage temperature can't be lower than -10°C nor higher than 40°C .

Disposing the battery

Be sure to completely discharge the battery before placing it in the designated battery recycling bin. Batteries contain dangerous chemicals. When disposing of old batteries, be sure to follow the local battery recycling and disposal regulations, and it is strictly forbidden to put them in a trash can.

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