



UHF

40W

Wireless Portable Sound System



System Family:

GPA-550 (Lead-Acid battery powered)

GPA-560 (Ni-MH battery powered)

GPA-570 (Lithium battery powered)

[User Manual]

Preface

Thank you for the purchase of Wireless Portable Sound System GPA-550 and its family product GPA-560 and GPA-570. This manual will give comprehensive instructions and operation. Please read it over before your use to perform this unit well.

* All peripheral and accessories are subject to order. Components in the package might be different by demand.

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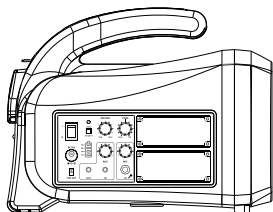
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Product Mix

GPA-550 is powered by Lead-Acid battery; its family product GPA-560 and GPA-570 are respectively powered by Ni-MH and Lithium battery. They are all compatible with same receiver and audio player. The available mix are presented as below.

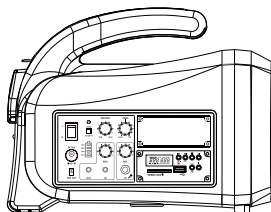
GPA-5X0

Portable Powered Speaker



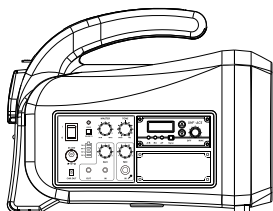
GPA-5X0U

Portable Powered Speaker,
1 audio player built-in



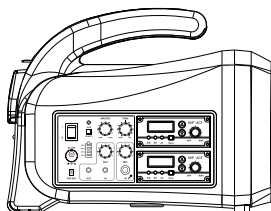
GPA-5X0W1

Wireless Portable Sound
System, 1 receiver built-in



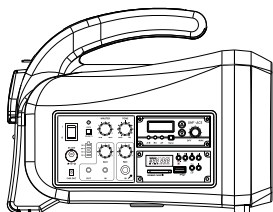
GPA-5X0W2

Wireless Portable Sound
System, 2 receiver built-in



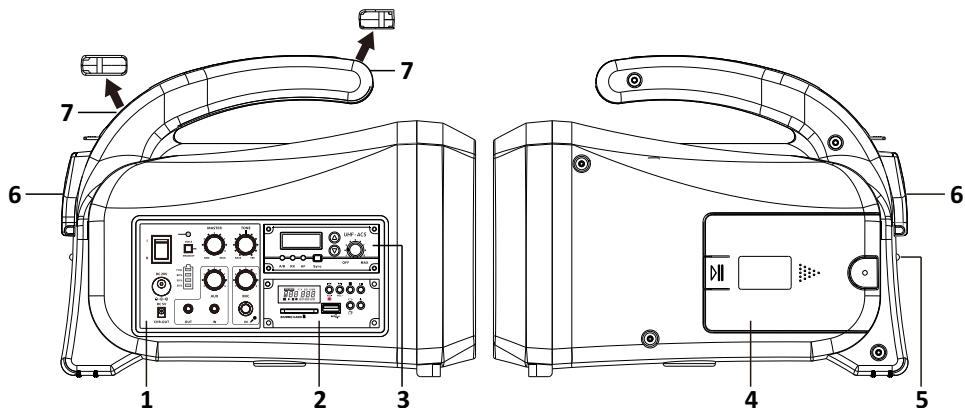
GPA-5X0WU

Wireless Portable Sound
System, 1 receiver and
1 audio player built-in



* X is the variable for 5, 6 and 7; battery type dependant

Illustration



1. Controls, battery meter, mic in
2. Digital audio player UM-502
3. Receiver DR-501A
4. Battery door

5. LED indicator (EJ-501TM)
6. Drop in charger (EJ-501TM)
7. Strap buckle

Battery replacement



Get screws off



Take battery out



Get screws off



Take battery out



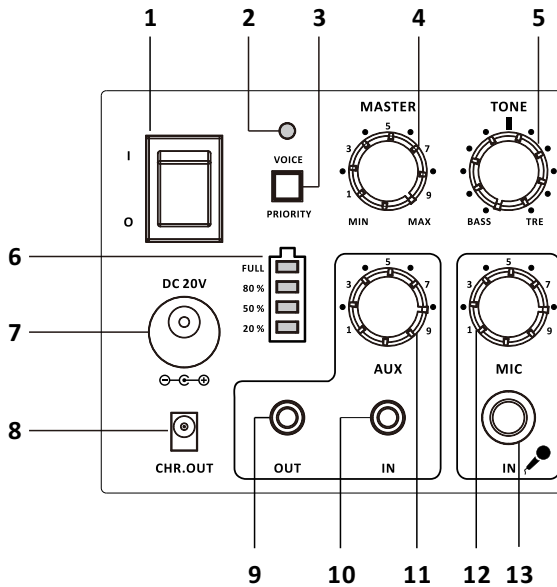


Carry Bag
CB-550



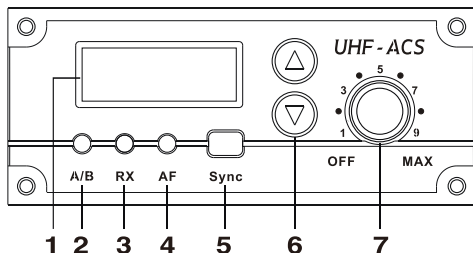
Folding Tripod
ST-35

Controls and Operation



- 1. Power switch**
- 2. Voice priority indicator**
- 3. Voice priority:** when it is activated, an indicator (3) will light up.
- 4. Master**
- 5. Tone**
- 6. Battery meter**
- 7. DC IN**
- 8. 5V charger (for EJ-5T)**
- 9. Aux out, Ø 3.5mm**
- 10. Aux in, Ø 3.5 mm**
- 11. Aux in control**
- 12. Mic (wired) in control**
- 13. Wired mic input**

Wireless Receiver DR-501A



1. LCD window
2. Antenna A and B indicator
3. RF signal indicator
4. AF signal indicator
5. Synchronization button
6. Channel up/down adjustment
7. Receiver power on/off control and volume adjustment

■ Operation

Turn receiver power on/off control (7) clockwise until a click occurs. A text of “**Sync**” will appear on LCD window for about 2 seconds and it follows a channel number. The turn on is successfully. To turn it off, just turn the control counterclockwise until a click occurs. A text of “**OFF**” will appear on LCD window and will disappear after 2 to 3 seconds.

How SYNC works

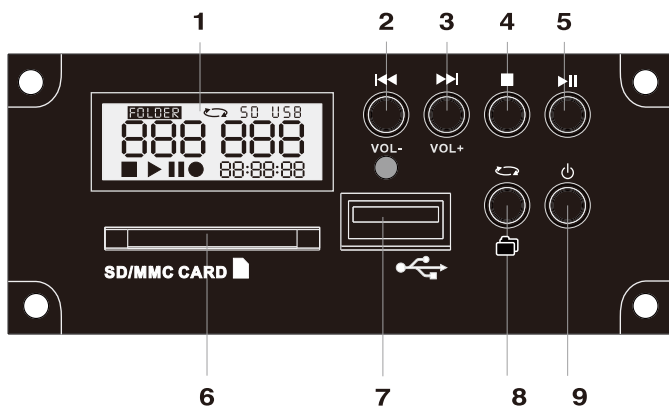
“**Sync**” function can find a clean channel and assign it to transmitter in the range, about 3 m. Just turn on your microphone or transmitter first and press SYNC button, in few seconds the progress will be done. During synchronization, the RF indicator will blink.

Change channel manually

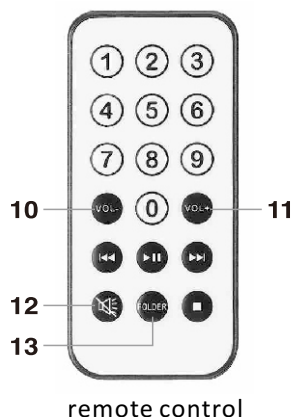
Press and hold UP or DOWN button (6) for 1 second until channel number is blinking. Select a desired number through UP or DOWN (6) button. A selected channel number will be confirmed in 1 second if no more adjustment made to it.

- * Please complete channel setup in one receiver first and then a second one when you have more than 1 receiver.
- * Be sure to give different channel number to each receiver.

Digital Audio Player UM-502



1. LCD window
2. Previous track / volume down
(works during playback)
3. Next track / volume up
(works during playback)
4. Stop
5. Play / Pause
6. SD/MMC port
7. USB port
8. Repeat / Folder select
9. Power
10. Volume down (MUTE when in minimum level)
11. Volume up
12. Mute
13. Folder select






1. Press and hold (9) for 1 second to turn this player on. Press and hold (9) for 1 second to turn it off.
2. Press (2) to play previous audio track; press (3) to play next audio track. Press (4) to stop any playback.
3. Press (5) to Play or to Pause any audio track.
4. When both SD card and USB are installed, USB has higher priority to be readout.
5. Do not pull SD card out directly or it might be damaged. Just push it a bit forward and it will be ejected.

Digital Audio Player UM-502

6. Repeat / Folder Select:

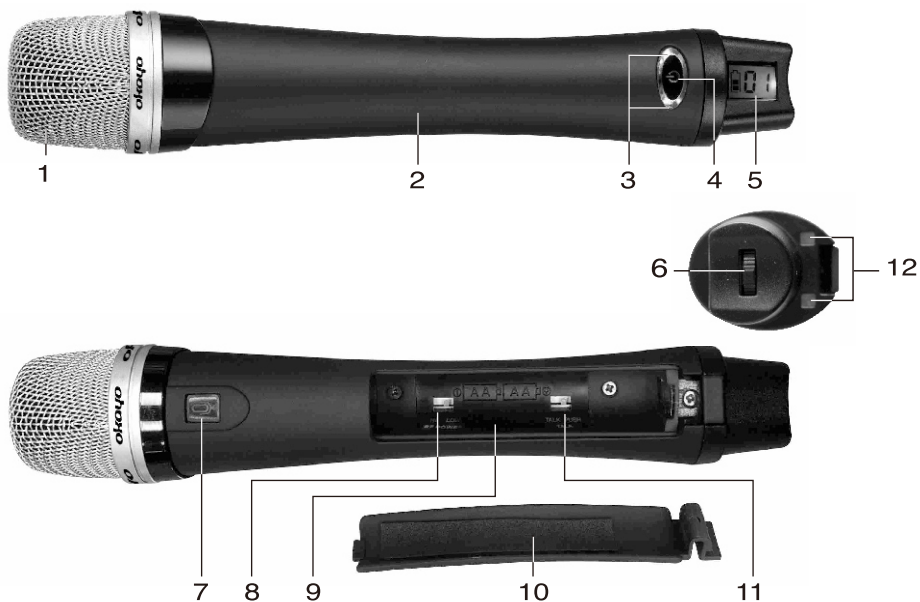
a. There are 3 modes for repeat during audio playback.

-  : To repeat a track.
-  : To repeat all tracks in all album.
-  : To repeat all tracks in a single album.

b. When not in playback, press (8) to select a desired folder/album with NEXT, PREV buttons. Finally press PLAY to end the setting.

7. During playback, press VOL+ to increase volume; press VOL- to decrease volume.

Handheld Microphone EJ-501TM



1. Mesh head
2. Handheld tube
3. Power indicator
4. Power ON/OFF button
5. LCD screen
(channel, battery energy)
6. Channel adjustment and
setup button
7. Talk/Mute button
8. Power Hi/Low switch
9. Battery room
10. Battery door
11. Talk/Push mode switch
12. Charging contacts

Insert battery



Open battery door and insert 2 AA 1.2 V (Ni-MH 1600mAh) or 2 AA 1.5 V Alkaline batteries. Make sure the batteries are allocated in correct direction.



Handheld Microphone EJ-501TM

Operation and setup for handheld microphone EJ-501TM

1. Take batteries off and make your preferred microphone mode Talk/Push (11).
 - ※ TALK - Under this mode, microphone will activate only when microphone icon turns into green; mute the microphone by a press to microphone icon which will be turned into red.
 - ※ PUSH - Under this mode, microphone will send out signal only when the talk/mute (7) button is pressed and held-the microphone icon turns into green; when talk/mute (7) button is released the microphone will mute any signal-the microphone icon turns into red.
2. Choose a preferred output power with Hi/Low power switch (8)
 - ※ Hi - offers operation range up to 60 M (line-of-sight); current drained at 100 mA.
 - ※ Low - offers operation range up to 30 M (line-of-sight); current drained at 70 mA.
3. Insert batteries and resume battery door. Press and hold power ON/OFF button (4) for 1 second to turn on. The power indicator (3) lights up when power on progress is made successfully.
 - ※ Power indicator lights in green - sufficient battery energy
 - ※ Power indicator lights in red - low battery
4. Under "Talk" mode:
Green microphone icon - Talk; Red microphone icon - Mute
Under "Push" mode:
Green microphone icon - Talk; Flashing red microphone icon - Mute
5. Turn off handheld microphone by pressing and holding power ON/OFF button (4) for 2-3 seconds.
6. The performance of signal transmission is highly involved with battery energy. Batteries with 1600 mAh (or above) in capacity are recommended. The optional charger HDC-502/503 is an economy solution for you daily use.



HDC-502



HDC-503

CAUTION!!

※ **DO NOT attempt to charge Alkaline battery. It will lead to battery leakage or even explosion!**

※ **Take out batteries when the devices won't be operated in a long time.**

Pendant/Bodypack Transmitter EJ-5T



- | | | |
|--|------------------------------|-----------------------|
| 1. POWER / MUTE switch (MUTE indicator) | 5. External mic. Input | 10. Strap hole |
| 2. Channel / Volume switch | 6. Hidden charging indicator | 11. Neck strap |
| 3. LCD screen | 7. Aux input | 12. Buckle clip |
| 4. Mesh head (hidden microphone) | 8. Neck Strap hole | 13. Charging terminal |
| | 9. DC charging input | |

Set up/ Installation

Power ON

1. Press and hold for 0.5 second and the power is on. LCD backlit lights up.
2. When power is on, the button lights blue.
3. Power is on in two seconds and receiving audio signal.

Power OFF

1. Press and hold for two seconds to turn the device off.
2. OFF display on screen and all indicators turned off.

Channel select

1. Press and hold SET button for two seconds; enter into the channel select mode.
2. When channel numbers flashes, press \oplus or \ominus to select preferred channel. To confirmed, press SET button.

Channel display

- Press SET button to display the current used frequency.

Pendant/Bodypack Transmitter EJ-5T

Select output power/Maximum available channels

1. On OFF mode, press SET and POWER button to enter into the selection mode.
2. LCD screen will display maximum available channels; 640 -664 MHz, 794-806 MHz and 863-865 MHz. Press ⊕ or ⊖ to select preferred channel.
3. Press SET button to confirm and select, or it will confirm in 5 seconds without any keys pressed.
4. LCD screen will display Hi / Lo, press ⊕ or ⊖ to select preferred output power.
5. Press SET button to confirm and select or to wait for 5 seconds without any keys pressed.

Volume switch

- LCD screen will display current used volume level when press ⊕ or ⊖ (VOL. 1 ~ 3).

Charging mode

1. LED lights red when charging.
2. LED lights green when battery is fully charged.
3. When device is slot into a charger stand, will off the power.
4. Battery error: LED status lights red and flashes when charging, LCD battery symbol lights flashes, and it caused by:
(1)The battery charge temperature is exceeded 60 °C.
(2)The duration of charging time for charger stand is exceeded seven hours.
(3)The battery is defected.

Frequency synchronization

1. When power is on, it will synchronize frequency or switch off without receiving audio signal when exceeded upto ten minutes. When synchronization, MUTE indicator lights blue / flashes and LCD backlit lights up.
2. Press MUTE button when channel is displayed on screen, enter into the synchronization mode or off without receiving audio signal exceeded upto twenty seconds.
3. When succeed, it will switch to MUTE mode and LED lights red.

Others

- To reset mode, press ⊕ / ⊖ at the same time and switch the power on.

Pendant/Bodypack Transmitter EJ-5T

※ Caution

1. DON'T operate the device in the rain or in humid circumstance to prevent failure.
2. Prevent the device from dropping.
3. Apply factory recommended power supply to this system only. It is dangerous and risky when employing a not qualified power.

Troubleshooting

Failed to Power On

Be sure batteries are allocated and put in correct direction.
Be sure power adapter is plugged well.

No Sound Output

Be sure transmitter and receiver stay at same channel.
Be sure volume control on transmitter and receiver are turned properly.
Be sure Master is turned properly.
Be sure Mute button is not on.
Check if transmitter and receiver stay at same frequency band.
Check if there is huge air interference nearby.

Maintenance

Avoid heat, humidity

DO NOT put the unit in the sunshine for a long time, or any other hot, humid environments or places with flame. Stay away from any occasions where situation mentioned above might occur. Store the unit in general indoor temperature or in cool circumstance.


Charge BEFORE you start using for the first time

After unpacking the unit for the first time, please charge the unit for about 8 hours. This is absolutely necessary as the built-in rechargeable battery might have been discharged naturally due to long transportation and storage time, even though it has been fully charged in the factory prior to shipment. To secure a longer life for battery, please MUST execute this IMPORTANT process.

Charge fully

Ensure battery is fully charged BEFORE you store the unit. To remain a longer battery life and better performance, make sure you charge the battery regularly every month.

 **When you need to use the unit again after a long period of storage, make sure you charge it fully for at least 8 hours BEFORE any operation.**

 **Please also charge this unit every time right after operation to secure a longer battery life.**

This unit has DOD (depth of discharge) protection design. When Power Switch LED flashes red - which means there isn't enough electricity (when operating via the battery's power - this unit will turn off automatically in a short time to secure battery from deep-discharging damage. At this moment please immediately recharge your unit, do not continue with operation.

This unit has protection circuit against overcharge. The circuit will stop charging when battery is fully charged even power cord is plugged.

Useful hint: You can still operate during charging.

Replacing battery

Make sure the substitute battery is in compliance with qualified specifications. Using incorrect battery may lead to explosion or malfunction.

Maintenance

Remove battery from transmitter when you won't use it for a long while.

Charging contacts

Clean charging contacts regularly to ensure good connection with charger. When any corrosion occurs, contact your dealer to change it if you can't repair it.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Notice: The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help.

Specifications

Overall

| | |
|----------------------|------------------------------------|
| Carrier frequency | 640 ~ 865 MHz (country dependant) |
| Channels | 16 ~ 96 (frequency dependant) |
| LCD window | channel, frequency |
| Channel adjustment | select through UP and DOWN |
| Frequency modulation | 24 MHz (max.) |
| Ambient temperature | -10 °C ~ +50 °C |
| Dynamic range | 100 dB |
| T.H.D. | < 0.5 % |
| Pre-emphasis | 50 μ s |
| Frequency response | 70 Hz ~ 16 kHz |
| Wireless coverage | 50 ~ 70 meter (RF power dependant) |

| | |
|----------------------|---|
| Output power | 40 W (RMS) @ 4 Ω |
| Speaker | 5" Neo driver, 1" tweeter |
| Digital audio player | supports USB disk and SD card (optional) |
| Receiver | plug-in receiver with ACS (Auto Channel Synchronization), supports 2 receivers maximum. |
| Audio input | mic in (6.3mm); aux in (stereo mixed, 3.5 mm) |
| Audio output | aux out (stereo mixed, 3.5 mm) |
| Controls | Receiver, Master, Tone, Mic, Aux in |
| Power supply | AC switching power adapter 100 ~ 240 V, 20 V / 2.2 A |
| Battery | Lead-Acid, Ni-MH, Lithium rechargeable battery (model dependant) |
| Charging time | 8 ~ 12 hours (battery dependant) |
| Running time | 3 ~ 6 hours (battery dependant) |
| Dimensions (DxWxH) | 333 x 153 x 246 mm |
| Weight | 3.1 kg (Lithium battery included) |

※ Specifications are subject to change

Specifications

Digital Audio Player UM-502

| | |
|--------------------------|---------------------------------|
| Frequency response | 20 Hz ~ 20 kHz |
| Power requirement | DC 12 V |
| Display | backlit LCD |
| Output level | 1 V ± 2 dB |
| Format supported | MPEG Layer 3 |
| S/N ratio | > 60 dB |
| T.H.D. | < 1 % |
| Remote range | > 3 m |
| Controls | Play, Stop, Repeat, Next, Prev. |
| External audio supported | USB disk, SD card |

Pendant/Bodypack Transmitter EJ-5T

| | |
|--------------------|------------------------------|
| Microphone capsule | condenser |
| Antenna | internal |
| RF output power | 10 mW@Hi / 3 mW@Low |
| Audio input | Mic in, Aux in |
| Mic in jack | 3.5 mm |
| Audio control | Mute, Hi/Mid/Low sensitivity |
| Battery | Lithium (1200 mAh) |
| Running time | 12 ~ 16 hours |
| Dimensions (DxWxH) | 32 x 52 x 88 mm |
| Weight | 81 g (battery included) |

Wireless Handheld Microphone EJ-501TM

| | |
|--------------------|--|
| Microphone capsule | condenser |
| Antenna | internal |
| RF output power | 10 mW@Hi / 3 mW@Low |
| Audio control | Talk / Mute button |
| Battery | 2 AA 1.2 V (Ni-MH, 1600 mAh); or 2 AA 1.5 V (Alkaline) |
| Running time | 15 (Ni-MH) / 20 (Alkaline) hours, typical |
| Dimensions (D x L) | 37 x 200 mm |
| Weight | 140 g (battery included) |



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