EMIX

PORTABLE AMPLIFIER

EMPP-88UDMKIII

8. Parts Included

Component	Quantity
(1) Portable Amplifier	1 PC
(2) AC Cord	1 PC
(3) User's Manual	1 PC

Note: All the data on the drive will be deleted and become unrecoverable. Don't disconnect during the format process or it could completely disable the player so that it will not work. Once formatting is complete, disconnect the USB cable and reconnect it again. The cable when formatting. Disconnect USB after finished formatting, then reconnect to player / computer.

e. If the player freezes up for any reason, turn it off for 3 seconds, and then turn the power back on.

2.3. Features

1. Support MP3、WMA audio format.
2. Support USB 2.0 high speed transmit, compatible with USB 1.1, Support SD card.
3. USB port for uploading/downloading audio files to and from the digital audio player's internal memory and an SD card.
4. SD card slot: support 8GB SD extension card.
5. Support many language.
6. Support EQ function, with 7 equalizer presets.
7. Support A- B section looping function.
8. WAV file format recording and playback are supported in recording, recording range from 32kbps to 192kbps. Lower quality recording allow recording for a longer time.
9. Adjustable LCD contrast for different environments.
10. Operation system compatibility : Windows 2000/ XP/ Vista/Windows 7 32-bit & 64-bit, Mac OS.

Table of Contents

1. Introduction and Product Specification

1.1. Introduction

Thank you for choosing our portable amplifier. In order to get the best performance,
please read this manual carefully before using. Please recharge this unit every month to achieve
the best performance.

1.2. Product Specification

Power Output	RMS 100W @ 4Ω	MAX 200W @ 4Ω
Speakers	Subwoofer 10" 1PC; 1" Tweeter 1PC	
Rechargeable Batteries	12V 7AH 2PCS	
Distortion	1%（at 10W）	
Frequency Response	50Hz-18KHz±3dB	
Input	Wireless / Wired MIC IN、AUX IN	
Output	Line / Vedio out	
Recharging Time	8-11 Hours	
Working Time	3-4 Hours	

Record Type	Record Volume Adjustment	Record Mode	Exit

b-3. Record Type: Select this item to set record memory,32kbps、64kbps、128kbps、
192kbps、192kbps is the highest. Default memory is 128kbps.

Record Molume adjustment: 0-7.

Record Mode: ADPCM、PCM.

Exit: Select this item to exit. Long press "PLAY / PAUSE" (1) back to main menu.

10. Insert SD card into slot (16), or insert USB pen into slot (17), the files will be read automatic;
If insert SD card and USB into slot simultaneously, press "SD / USB" (15) to shift.

A. USB connection: A computer can be used to transfer files to or from the digital audio
player by connecting to the USB port. Follow this process to connect your computer
and transfer files to or from the digital audio player / recorder:

a. Connect a USB cable to the USB port on both the audio player and computer.

b. The player will show a connecting sign on the LCD.

c. The internal (Flash) memory will now show up as a removable hard drive on the computer.

d. Any SD card plugged into the digital audio player will show up as an additional removable
hard drive on the computer.

e. Copy, move, rename, delete file can be operated on the computer. The changes will have
taken affect when unplug the USB cable.

B. Warnings:

a. when downloading or transferring files to or from player / computer, do not disconnect the
connector to prevent damage to the player or PC.

b. If you are using Windows 98 you may need to install software drivers first before the system
will recognize the player.

c. Before using a new (unformatted) SD card with the digital audio player / recorder, please
format the card first.

d. If the flash or SD card are not formatted or get corrupted somehow, you may format them
by clicking on "My Computer" and then right clicking on the drive and clicking "Format"

a.   Ⓝ Normal play: play all the songs in the default order.

b.   Ⓘ Repeat one: repeat only the current selected song.

c.   Ⓓ Folder: play all the songs in the selected folder once.

d.   Ⓓ Repeat folder: repeat all the songs in the selected folder.

e.   Ⓐ Repeat all: repeat all the songs in the selected memory

f .   Ⓡ Random: play all the songs in random order.

g.   Ⓘ Intro: play few seconds of each song, then skip to next song.

7. Equalizer:

Short press "EQ" (8) to adjust equalizer, the following equalizer preset are available: Natural, Rock, Pop, Classical, Soft, Jazz, Bass.

NOR	ROCK	POP	CLAS	SOFT	JAZZ	DBB
Natural	Rock	Pop	Classic	Soft	Jazz	Bass

8. Repeat Mode (A-B):

a. When playing music, short press "A-B" (11), LCD display screen (18) indicate icon A-B instead of file number icon.

b. "A" stop, "B" flashing, it means enter into repeater function.

c. Press again to set start point "A", press again to set finish point "B".

d. To cancel "A-B" repeat, simply press the button again.

9. Insert SD card / USB into the slot, short press "SD / USB" (15) to select memory, short press "REC" (12) enter into recording mode function.

a-1. Short press "PLAY / PAUSE" (1): Recording pause, press again to resume recording.

a-2. Long press "PLAY / PAUSE" (1): Save recording files.

a-3. Under pause status, short press "MENU" (9),select USB folder, with "Skip Backward / Skip Forward" key enter into "VOICE" folder, select recording file to play.

b-1. Short press "REC" (12): Recording pause, press again to resume recording.

b-2. Long press "REC" (12): Recording save and pause, short press "MENU" (9) enter into submenu.

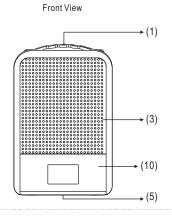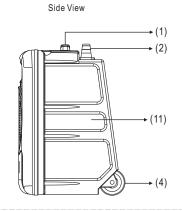
2. Important Safety Information

Thank you for choosing our portable amplifier. In order to get the best performance, please read this manual carefully before using. Please recharge this unit every month to achieve the best performance.
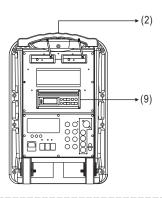
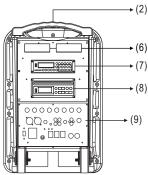|	
Do not open this product by yourself for adjustment. To reduce the risk of fire or electric shock, do not remove the cover. High voltage parts are inside.	Do Not Disassemble
To reduce the risk of electric shock, do not touch power outlet when thunders, do not pull power plug with wet hands. Do not put vessel with liquid or small metal parts on the top of this equipment, do not let metal or flammable parts drop into this equipment.	Do Not Touch
To reduce the risk of fire or electric shock from damaged power cord, do not pull power cord strongly when pulling out the power plug. Always grasp the plug tightly then pull it out. Turn off the power if this equipment will not be used for a long period of time after setup.	Pull Out AC Plug
To reduce the risk of electric shock, use the specified power voltage only. Do not expose this equipment and power cord under the sun or to the moist or dusty places. Keep away from hot apparatus or places with oil, smoke and water.	Forbidden
To prevent damage from impact, do not put heavy articles on the top of this equipment, do not put equipment on shakable、declining and unstable places.	
Please insert the power plug into power outlet entirely and clean them regularly because the accumulated dust will apt to cause fire. Please pull out power plug and contact with our dealer when the following happens: ① When smoke comes out with burning smell from this equipment. ② Water or other article goes into this equipment. ③ Dropped on the ground and unit is damaged. ④ Power cord damaged. (Cord core exposes or cord broken) ⑤ No sound output.	Forbidden

3. Parts Description

3.1. Main Unit

Front View   Side View

EMPP-88UDMKIII View

(1) Handle
(2) Retractable Carry Handle
(3) Speaker Protection Grills
(4) Wheels
(5) Pole Mount
(6) External Receiver Module

(7) MP3 Player & Record
(8) DVD Player With USB Input
(9) Control Panel (EMPP-88UDMKIIIH2 / HL)
(10) Battery Compartment
(11) ABS Cabinet

(Pictures for reference only)

a. Contrast Adjustment: adjust LCD contrast (1-15).

b. Backlight: adjust LCD backlight time.

c. Language: Select menu language: Simplified Chinese, Traditional Chinese, English, Japanese, Korean, France, German, Italian, Dutch, Portuguese, Spanish, Swedish, Czechic, Danmark, Poland, Russian, Turkish, Hebrew, Thai, Hungarian, Romania, Arabic, Indonesian, Greek.

d. Firmware version: show the current hardware version.

e. Exit: exit menu.

5. Menu Mode:

A. When pause the playing file, short press "MENU" (9) enter into submenu:

USB Folder	SD Card folder	Delete File	Delete All	Exit

a. USB port / SD card folder: select this item to show all the files in the USB / SD card.

b. SD card folder: select this item to show all the files in the SD card.

c. Delete file: select this item to delete the current file. Press "Skip Backward / Skip Forward" key to select YES or NO. Press "MENU" (9) to confirm.

d. Delete all: select the item to delete all the files on the current selected memory, Press "Skip Backward / Skip Forward" key to select YES or NO. Press "MENU" (9) to confirm.

e. Back to main menu: select this item back to main menu.

f . Exit: select this item to exit.

B. When playing the file, short press "MENU" (9) enter into submenu which as follows:

Volume Mode	Repeat Mode	EQ Mode	Repeater Mode	Exit

6. Repeat mode :

press "REPEAT" (10) enter into repeat play setting:

Normal Mode	Repeat One	Play Folder	Repeat Folder	Repeat All	Random Play	Intro Play

7.2. Parts Description

(1) Play / Pause	(11) A-B Repeat
(2) Skip Previous / Rewind	(12) Record
(3) Skip Previous	(13) IR Signal receiving port
(4) Rewind	(14) Remote control holder
(5) Skip Next / Fast Forward	(15) SD / USB
(6) Skip Next	(16) SD Card Slot
(7) Fast Forward	(17) USB Port
(8) EQ	(18) LCD Display
(9) Menu	(19) Mode Key
(10) Repeat	(20) Numeric Key

7.3. Operation Guide

Basic Menu / Button Operation

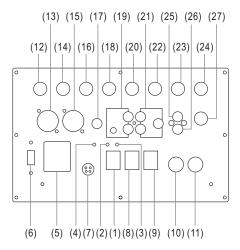Note: On front panel or remote control, press "MENU" (9) to access menu system or confirm.

1. On front panel or remote control, press "PLAY / PAUSE" (1) once to pause while track is playing, press again to resume play.

2. Short press "Skip Previous / Rewind " (2) which on front panel: Skip Previous; Long press: Rewind. Short press " Skip Previous " (3) which on remote control: Skip Previous; Long press (4): Rewind.

3. Short press "Skip Next / Fast Forward" (5) which on front panel: Skip Next; Long press: Fast Forward. Short press " Skip Next " (6) which on remote control : Skip Next; Short press (7): Fast Forward.

4. System setting mode:
   Long press "MENU" (9), back to main menu interface, press "Skip Backward / Skip Forward" key enter into system setting:

Contrast Adjustment	Backlight Time	Language	Firmware Version	Exit

3.2.1. Control Board (This picture is only for EMPP-88UDMKIII)

(1) Power Switch.
(2) Power LED Indicator, when voltage is low, it lights red .
(3) Power LED Indicator, when turn on power, it lights green.
(4) Battery Power LED Indicator:
   When battery is charging, the light is red. When battery is fully charged, the light is green.
   It is an AC power LED indicator also.
(5) AC power input jack.
(6) AC Voltage Switch.
(7) DC power input jack.
(8) Voice Priority Switch.
(9) Mute Switch.
(10) EXT SPEAKER speaker output jack.
(11) EXT SPEAKER speaker output jack.
(12) Volume control of wired MIC-1.
(13) Wired MIC-1 input jack.

(14) Volume control of wired MIC-2.
(15) Wired MIC-2 input jack.
(16) AUX 1 VOL (Volume control of external sound source).
(17) AUX-1 IN
   (Jack for external sound source).
(18) AUX 2 VOL (Volume control of external sound source).
(19) AUX-2 IN
   (Jack for external sound source).
(20) TAPE / CD / MP3 / Audio & Video Player volume control and power switch .
(21) LINE OUT jack.
(22) ECHO control.
(23) TREBLE control.
(24) BASS control.
(25) VIDEO IN jack.
(26) VIDEO OUT jack.
(27) Master Volume Control.

(Pictures for reference only)

3.2.2. Control Board (This picture is only for EMPP-88UDMKIII)

This unit can use AC power (150W 50/60Hz 2A MAX) or built-in DC power (12V-24V. The rechargeable voltage cannot be less than 18V).When inputting DC 12V, current cannot be less than 10A, when inputting DC 24V, current cannot be less than 5A,other wise, the system cannot work normally.
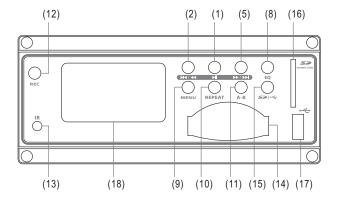
Note: Before using this device, please use AC cord to recharge. Recharging time is 10~12 hours.

1. (A) When using AC power, insert one end of AC cord into AC power input jack (5), the other end into AC power outlet. Switch Power (1) on, power LED indicator (3) lights in green to indicate normal condition. Press AC voltage switch (6) up and down to switch voltage between 115V-230V.
   (B) When using built-in rechargeable battery, please pull out AC cord and switch Power (1) on, power LED indicator (3) lights up in green to indicate normal condition. When power LED indicator (2) lights up in red, it indicates the battery power is low, please recharge it as 1.(A) about.
   (C) If battery voltage is not enough, main unit will be powered off automatically.
   (D) Insert the power cord into AC input jack (5) , the machine charges automatically.
2. Turn on handheld microphone or body pack transmitter power switch, RF LED indicator (3) on module receiver will light. This indicates receiver has received signal and in normal condition.
3. If wired microphone is used, insert wired microphone into MIC 1(13) or MIC 2 (15) jack, adjust volume control (12) or (14) to reach appropriate volume.
4. If external amplifier is used, insert one end of signal cable into LINE OUT jack (21), another end to external amplifier.
5. To amplify external sound source, insert signal cable into AUX-1 IN (17) or AUX-2 IN (19). Volume can be adjusted by AUX 1 VOL (16) or AUX 2 VOL (18).
6. This unit has ECHO control (22). The volume of the treble (23) and bass (24) could be controlled. (Suitable only when microphone is used).
7. To use with external speaker, insert signal cable into EXT speaker (10) or (11).
   (When using built-in battery for power supply, and connect with the external speaker for output, impedance will ≤8Ω,if music is too strong, broken voice will be happen. When using built-out adapter for power supply, and connect with the external speaker for output, impedance ≤8Ω,if music is too strong, broken voice maybe happen.)
8. Press playback key directly on the TAPE / CD / MP3 / Audio & Video Player to play the music. The volume could be controlled by volume knob (20) on control-board. When CD is playing with too strong music, broken voice maybe happen.
9. When connecting with video, you can insert one end of video-in connection to video-in jack (25), or insert one end of video-out connection to video-out jack (26).
10. Voice Priority: Turn on Voice Priority Switch (8). When using microphone, music will be cut off automatically. When stop using microphone, music will start again.
11. The voice of this system could be controlled by general volume key (27).
    Notes: 1. To use built-in rechargeable battery, please recharge the battery fully before operation. Switch off the power, plug in AC Cord to start to charge. Charging time is about 10-12 hours. Please recharge this unit every month.
    2. If this system is not going to be used for a long time, charge the battery at least once a month. Pull out power plug and turn Power Switch to OFF position.
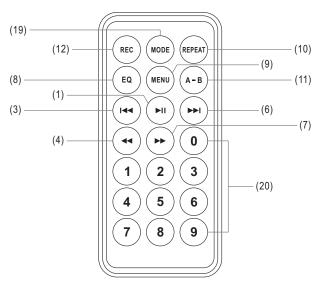
7. Digital Player & Record With MP3

7.1. Parts Description   Multi-Format Player

Remote Control

(Pictures for reference only)

14. **Skip Previous** : Skip to the previous chapter or song.

15. **Skip Next** : Skip to the next chapter or song.

16. **Mute** : Press this key to mute the audio. Press again to unmute the audio.

17. **Pitch Adjustment** : Press the Pitch + or Pitch - on the remote control to adjust the pitch setting.

18. **USB Slot** : Place the USB key into the USB slot. Press the USB / DISC button on the remote control or front panel to enter USB mode. Scroll through the different media types and then using the arrow buttons, scroll through the different files and press the Enter button to select a file to play.

19. **Safety Certification** : This multi format Player is made and tested to meet safety standards of the FCC, requirements and compliance with safety performance of the U.S. Department of Health and Human Services, and also with FDA Radiation Performance Standards 21 CFR Subchapter J.

⚠ INVISIBLE LASER RADIATIONWHEN OPEN AND INTERLOCK FAILED OR DEFEATED. AVOID DIRECT EXPO-SURE TO LASER BEAM.	LASER SAFETY This unit employs an optical laser beam system in the CD mechanism, designed with built-in safeguards. Do not attempt to disassemble; refer to qualified service personnel. Exposure to this invisible laser light beam may be harmful to the human eye. THIS IS A CLASS-1 LASER PRODUCT. USE OF CONTROLS, OR ADJUSTMENTS OR PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN, MAY RESULT IN HAZARDOUS LASER LIGHT BEAM EXPOSURE.

3.3. Features

1. Build-in batteries. Suitable for both indoor and outdoor usage including announcement and presentation.

2. Flexible design with multiple input / output that can connect to several units even for larger events.

3. It also can be placed on the ground or mounted on a tripod stand.

4. Echo effect for speech, singing and karaoke.

5. With 3 wired MIC input jacks and 2 wireless microphones. Suitable for multiple simultaneously users.

6. Independent CD player / MP3 player / DVD player and cassette recorder ON / OFF switch to save power.

7. New plastic enclosure, with multi function configuration, built in LCD or external LCD is selectable to bring you better audio quality and infinite enjoyment.

Table of Contents

6.3. Operation Guide

Note:

A. Some of the following buttons are on the remote control, and some are only on the machine. The button may function differently on the machine or remote control. Many of these functions are only applicable when the unit is connected to a display screen.

B. Please use 12CM standard disc (CD / DVD / VCD / SVCD)

1. **Eject** : Removes the disc from disc slot.

2. **Subtitle** : Press this key to switch between any available subtitles on the DVD disc when connected to a display screen.

3. **Audio** : Press this key to switch between any available language on the DVD disc. Left / right channel on the CD / VCD if is available.

4. **USB / DISC** : Switch between USB and disc Playback.

5. **Setup** : Press this key to setup the system when connected to a display screen.

6. **Menu** : Press this key to return to the menu when connected to a display screen.

7. **Play / Pause** : Press this key to begin playback or to resume normal playback from pause, fast forward, or fast reverse states. Press this key again to pause playback, and then press this key to resume normal playback.

8. **Zoom** : Press this key to zoom. Six different levels of zoom are available.

9. **Repeat** : Press this key to change the repeat mode.

10. **Program** : Press this key to program specific song / chapters to play when connected to a display screen. For track numbers above 10, press 10+ and then the additional digit. For instance, for track number 15, press 10+ then 5. For track number 37, press 10+ three times, then press 7. Note that inputted track numbers may not exceed the number of tracks available. Up to twenty tracks may be programmed.

11. **OSD** : Press to display track information when connected to a display screen.

12. **Rewind** : For fast backward search. You can select the speed of 2X, 4X, 8X, 20X.

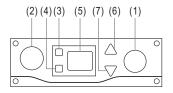13. **Fast Forward** : For fast forward search. You can select the speed of 2X, 4X, 8X, 20X.
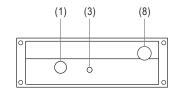
6.2. Parts Description

(1) DISC Slot

(2) Power Switch

(3) Stop

(4) Short Press: Skip Previous / Chapter;

   Long Press: Rewind

(5) Short Press: Skip Next / Chapter;

   Long Press: Fast Forward

(6) Rewind

(7) Fast Forward

(8) Skip Previous

(9) Skip Next

(10) Play / Pause

(11) Eject

(12) DISC

(13) USB

(14) File Skip Previous

(15) File Skip Next

(16) Infrared Sensor

(17) LCD Display

(18) USB Port

(19) Mute

(20) VOL+

(21) VOL-

(22) Pitch Up

(23) Pitch Down

(24) Numeric Key

(25) Audio

(26) Subtitle / language setting

(27) OSD

(28) Arrow Buttons

(29) Menu Enter

(30) Menu

(31) Zoom

(32) Program

(33) Random

(34) Setup

(35) Repeat

4. Receiver Module (Horizontal Type)

(2) (4) (3) (5) (7) (6) (1)

PLL Infrared Sync

(1)   (3)   (8)

(1) Power Switch & Volume Control

(2) Set / Sync Key

(3) RF LED Indicator

(4) Infrared Sync Port

(5) LED Screen

(6) Frequency Modulate (Up)

(7) Frequency Modulate (Down)

(8) Antenna

(Pictures for reference only)

4.1. PLL Infrared Sync Receiver Module Operation Guide

1. Adjusting Frequency : Turn on power of receiver (1),long press SET (2) key for 3 seconds, then press Up Key (6) and Down Key (7) for choosing frequencies while LED (5) is flashing, short press SET (2) Key to confirm.
2. Scanning Frequency : Turn on handheld mic and face the handheld infrared's sensor IR SYNC to receiver's infrared sensor IR LED (4) (distance within 1 meter), short press SYNC (2) Key, then LED (5) will flash one time and RF (3) becomes red, that means scanning is finished.
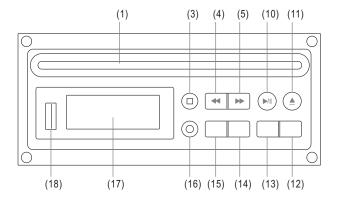
4.2. Wireless receiver

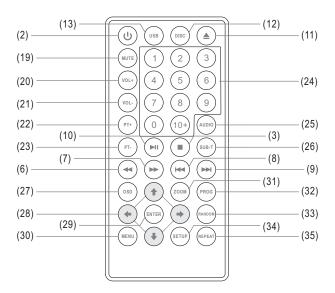| Modulation Mode	FM	FM
Frequency Range	UHF 400-900MHz	VHF 170-250MHz
Frequency Stability	$\pm$ 0.005%	$\pm$ 0.005%
Sensitivity	-95dB S/N $>$ 40dB	-95dB S/N $>$ 40dB
Adjacent Channel Rejection	$>$ 80dB	$>$ 80dB
Image and Spurious Rejection	$>$ 80dB	$>$ 80dB
AF Output	450mV $\pm$ 50mV	450mV $\pm$ 50mV
SNR	$>$ 80dB	$>$ 80dB
Distortion	$<$ 1%	$<$ 1%
Power Source	12V	8V
Current Consumption	130mA $\pm$ 20mA	30mA $\pm$ 10mA

6. Multi-Format Player

6.1. Parts Description

Multi-Format Player

Notice: Please insert the disc to the DVD player after the screen is displayed for the purpose of protecting the DVD player.

Remote Control

(Pictures for reference only)

5.3. Wireless Transmitter Specifications

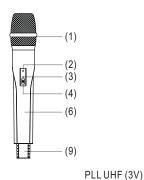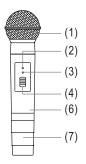|	
Modulation Mode	FM
Oscillation Mode	Crystal
Channel Number	1CH
Frequency Range	VHF 170~250MHz
Frequency Stability	±0.0005%
Modulation Factor	15K (± 3K)
Transmitting Power	10dBm ± 0.5dB
Spurious Emission	＞40dBm
Frequency Response	80Hz-12KHz (±3dB)
SNR	＞70dB
Distortion	1% 1KH 50mV
Power Source	DC 1.5V
Current Consumption	250mA±10%

5. Wireless Transmitter

5.1.1. Wireless Handheld Microphone

PLL UHF (3V)

(1) Mesh & Capsule
(2) Power LED Indicator
(3) Low Battery LED Indicator
(4) Power Switch
(5) IR SYNC
(6) Plastic Body
(7) Battery Cover
(8) Battery Compartment
(9) Frequency Recognition Cap

5.1.2. Wireless Transmitter Operation Guide (PLL UHF)

1. Open battery cover (7), then insert battery (Pay attention to the positive and negative pole).Close battery cover.
2. Long press power switch (4) once to open handheld microphone, then LED indicator (2) turn green, press again to close it.
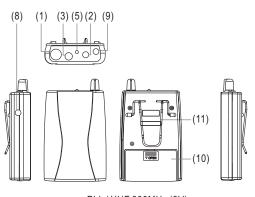3. Frequency adjustment :
   Turn on power switch (4), and face the handheld microphone infrared's sensor (5) to receiver infrared's sensor, then press SET key on receiver to match the frequency.
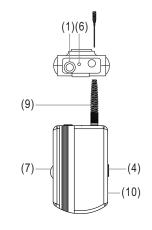4. Pull out the battery when not use.

(Pictures for reference only)

5.1.3. Wireless Handheld microphone (VHF)

1. Open battery cover (7), then insert battery (Pay attention to the positive and negative pole).Close battery cover.
2. Turn on microphone power switch (4), power LED indicator (2) will light up, low battery indicator (3) will flash once then off. When low battery indicator (3) lights up red, it indicates battery power is low. Change battery for continuously use.
3. When switching on microphone power, please operate the switch step by step. When the switch moves to the centre, please stay for at least 0.2 second or it will cause some noise. Then only move to on portion.

5.2.1. Wireless Body Pack Transmitter

(8) (1) (3) (5) (2) (9)

(1)(6)

(9)

(11)

(7)   (4)

(10)   (10)

PLL / UHF 800MHz (3V)

(1) MIC-IN Jack
(2) Gain Control
(3) Power Switch & Volume Control
(4) Power Switch
(5) Power LED Indicator
(6) Low Battery LED Indicator

(7) Volume Control
(8) LINE IN Jack
(9) Antenna
(10) Battery Compartment / Cover
(11) Clip on Bodypack Transmitter

(Pictures for reference only)

5.2.2. Wireless Body Pack Transmitter (PLL)

1. Open battery cover (10), then insert battery (Pay attention to the positive and negative pole).Close battery cover.
2. Turn on power switch (3), power LED indicator (5) will light up, When battery indicator (5) lights up red, it indicates low battery. Please change battery for continued use.
3. Plug clip-on microphone / neck microphone into Microphone jack (1), then it can be work with body pack together.
4. Adjust channel button (2), keep it compatible with receiver. It works normal when receiving signal indicator on.
5. Adjust volume knob (3) to get proper volume.
6. when need to use external audio, please plug signal cable into LINE IN jack (8).
Note: When use clip-on mic. / neck mic. , please extend the cable to get good transmitting effect.

5.2.3. Wireless Body Pack Transmitter (VHF)

1. Open battery cover (10), then insert battery (Pay attention to the positive and negative pole).Close battery cover.
2. Turn on power switch (4), power LED indicator (5) will light up, low battery indicator (6) will flash once then off (with power saving function design).
   When low battery indicator (6) lights up red, it indicates low battery. Please change battery for continued use.
3. Insert supplied headset MIC or lavalier MIC into MIC-IN jack (1).
4. Adjust volume knob (7) until main unit is in required receiving volume.
Notes: 1. Turn on body pack transmitter power switch, RF LED indicator on control board or on module receiver will light up.
   2. When using body pack transmitter, please extend the cord of headset MIC or lavalier MIC for better reception.