

PROFESSIONAL

WIRELESS MICROPHONE

- ◆ Dual channel UHF PLL control
- ◆ Multi-function LCD
- ◆ 1000channels tunable
- ◆ Automatic frequency selection with group scan function
- ◆ Infrared automatic transmitter setup



USER'S MANUAL

Note: To ensure this component will work safely and to its fullest potential, please read this operating manual carefully before use and keep for future reference.

Warning, Caution and Others

Thanks for purchasing our wireless microphone series product. We take pride in providing our customers with only the most advanced and highest quality karaoke products on the market. Please read through the following fate guard before use to ensure proper usage:





The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated <u>dangerous yottage</u> within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alerithe user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

CAUTION

To reduce the risk of electrical shock, fire, etc:

- Do not remove screws, covers or cabinet.
- 2. Do not expose this appliance to rain or moisture
- 3. Do not threw the battery casually. Please put it into assigned recycling bins.

PARTS

Please use the spare parts supplied and certified by manufacturer.

POWER SUPPLY

Please operate the unit under the voltage as labeled. Make sure the local voltage is availabeto the wireless microphone.

CLEANING

Please make sure the power is disconnected before cleaning or repairing the machine. The machine can be cleaned by using a soft cloth with water. Dry the machine with a drycloth and let it air dry for 15 minutes.

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Product Instruction

This is a wireless microphone system which is suitable for professional stage using, Withmost advanced technology as spacious UHF, transmitter, CPU control, PLL control, LCD, automatic frequency selection & 1000 channel tunable, the unit was competent in any stages.

1. Feature

A. UHF frequency transaction

Spacious UHF transaction, 600~960 MHz, transmitting in high efficiency, reducing distortion, picking up weak signals, more comfortable use.

B.LCD display screen

Advanced multi-function LCD display all the menu items can be display in the LCD screen.

C.1000channel tunable

1000 selectable frequencies across 600~960MHz bandwidth allow selecting the non-interfered frequency according to the environment.

D.MCU control

Ultra high-speedMCU analyzes signals, control noise and shock for perfect to ne.

E. Automatic frequency selection with group scan function

Automatically analyzing the surroundings and selecting the best frequencies before using the system.

F. Infrared automatic transmitter setup

The system send the data to the transmitter through IR automatically. Transmitter can track the IR signal and lock the working frequency.

2. Technical Specification

RECEIVER

- Carrier Wave Frequency Range: UH F614~960MHz
- Oscillation Mode: Phase-locked Loopcontrolled
- Carrier Wave Stability: 10PPM
- Switching bandwidth 24MHz
- Frequency Space: 25KHz
- Sensitivity: -105dB @ sinad=12dB
- S/NRatio: >105dB
- T.H.D.: <0.5% @ 1KHz
- Image rejection: 85 dB typical
- Spurious rejection: 75 dB typical
- Frequency Responses: 40Hz~18KHz
- Working distance: 200 feet
- Squelch Control: dual-squelch circuit
- AF Output Impedanœ: 2.2K Ω
- Max. OutputLevel: Balance : 0-400mv , Unbalance : 0-200mv
- Display: LCD
- Power Supply: External DC Power Supply, 0.5A, 12~18V DC
- Output Connector: 2XLR Balanced Socket UnbalanceTRs © 6.35mm Socket
- Dimensions (m/m): 420(L) x 45(H) x 200(D)
- Weights (Kg): 2.5

TRANSMITTER(HANDHELD)

- Transmitterpower: 10mW
- Spurious emission: <40dB(with carrier)
- Display: LED
- B attery voltage: AA1.5v x 2
- Battery life: 8 hours

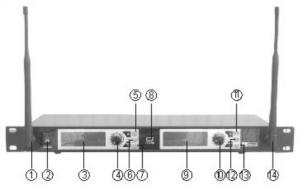
TRANSMITTER(BODY-PACK)

- Transmitter power: 10mW
- Spurious emission: <40dB (with carrier)
- Display:LCD
- Battery voltage: AA 1.5v x 2
- Battery life: 8hours

Installation

1. RECEIVER

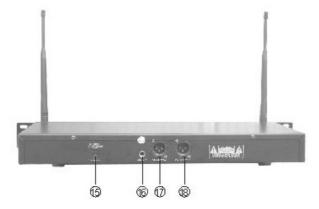
Front Panel



- (1) BNC Antenna Socket A
- 2 Power Switch
- (3) A Channel LCD screen
- (4) A Channel Volume Control
- (5) A Channel UP/IR SYNC
- (6) A Channel MENU/STOP
- (7) B Channel DOWN/MANUAL SCAN

- (8) IR Window
- B Channel LCD screen
- (10) B Channel Volume Control
- 1 B Channel UP/IR SYNC
- B Channel MENU/STOP
- B Channel DOWN/MANUAL SCAN
- (4) BN CAntenna Socket B

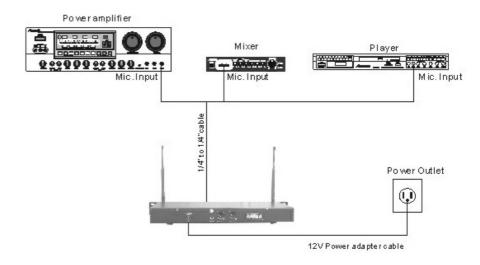
Rear Panel



- (5) DCInput
- (6) 6.35 Mixout

- BN CAntenna Socket B
- ® BN CAntenna SocketA

How to install the microphone system



- Insert the antennas into the BN C antenna socket and put the antennas in vertical position.
- 2. Connect the DC power adapter to the receiver's DC input 110V~230V, then plug the other end of AC power adapter into the wall outlet.
- 3. Connectione end of a 1/4" to 1/4" cable to the receiver's unbalance audio output (MIXOUT) and the other endto a karaoke mixer, karaoke player or karaoke power amplifier 1/4" microphone input. If you are using the balance audio output, use a XLR to XLR cable to 1/4" cable.
- 4. For achieving the best receiving sources, please make sure keeping the receiver 1 meter away from the ground at least. The distance between transmitter and receiver's antennaneed to be under 1 meter. Pleaseavoid operating the unit in complex environment.
- 5. Turn on the receiver, the systems will go back to last working condition.

2. Handheld Microphone



- 1) Cartridge module- This is where you would sing into.
- 2) Microphone body- The main frame of the microphone.
- 3) Operating indicator and 4) Switch button-

Hold the switch button for 1 second to turn on the power. Light will turns green means microphone is now in working condition.

When it lights up green, then press switch button shortly, the light will turn yellow, means microphone is in mute mode, no sound will comes out from microphone, to go backtoworking mode, press the switch button shortly again, the light will turn green.

When IR syncing, microphone needs to stay power on, but can be either working or mute mode. After switching channel on the receiver, press power button shortly on the receiver to start IR syncing. Then put the button part of the microphone to face the IR launcher on the receiver, the distance need to be under 1 meter. Press the microphone switch button shortly to confirm the IR syncing.

When there is no light, it means the microphone power off.

- 5) Battery cover & IR receiver- This is the base of the microphone where you would hold it. It is also a battery cover, the bottom part has a IR receiving unit inside which receive the IR signal from receives to complete the IR matching for microphone and receiver.
- 6) IR signal receiving and charging unit.

Operation(& switching channels):

- 1) Install batteries. Make sure the postive and negative end are installed properly.
- 2) Revolve the battery cover clockwise to fix with handheld microphone.
- 3) If you need to mute the microphone, push the switch button shortly, the light will turns vellow.
- 4) After you are done singing, push the switch button for about 1~2 seconds then release, lights will turns off.
- 5) If you are not going to use the microphone for a long period of time, turn off the microphone and pull out the batteries to avoid deterioration and damage to ward the components.
- 6) When IR syncing, microphone needs to stay power on, but can be either working or mute mode. After switching channel on the receiver, press power button shortly on the receiver to start IR syncing. Then put the button part of the microphone to face the IR launcher on the receiver, the distance need to be under 1 meter. Press the microphone switch button shortly to confirm the IR syncing. If IR syncing confirmed, the channel information on the LCD of receiver will display "IR.OK."
- 7) Do not recharge batteries until they are low.(Indicated by the red light or light off)

How to charge your rechargeable batteries

- Please use rechargeable dock and wireless microphone handheld which comes with the package to charge the rechargeable batteries.
- 2. Please do not recharge the batteries until the batteries is low, while microphone light indicated with the flashing red light.
- When using rechargeable dock charging batteries, the charging indicate light on the charging dock will turns red while batteries charging, when rechargeable batteries full, the light will turns off.
- Charging the batteries before it is low will cause the batteries usage life span to shorten.
- * Batteries recharging time = 1 hour
- * Do not charge the batteries if you are not using rechargeable batteries.

3. Body-pack Transmitter

- ① Transmission antenna
- Operating indicator- When it lights up red, the body-pack is now in working condition. When it is flashing red, it means the battery is low that was unable to keep working within haft an hour. Please replace the battery shortly.
- ③ Power switch- With "ON", "MUTE" and "OFF" position optional.
- (4) Input socket- It's used to connect the headset or lavalier microphone.
- (5) LCD screen- Display the channel and batteries status
- Operation button-Hold the switch button for 1.5 second to turn on/off the power, then press the operation button softly again for 0.5 second to confirm the IR syncing.
- Battery cover- This is the base of the microphone body-pack that you would hold it. Its' also a battery compartment that you install the batteries.
- AF gain control- Control the audio output to match the transmitter. (It's already tested by manufacturer. Don't adjust it if not required)
- 1 Waist clip: Fix the body-pack with waist while using the microphone.



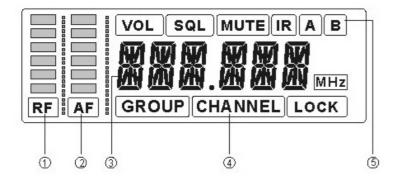
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Operating Menu on receiver

1. LCD Screen



- (1) RF signal indicator
- ② AF signal in dicator
- ③ Six digit display
- ④ Operating menu
- ⑤ Antennaworking in dicator

2. How to Use

Turn on the receiver, the system will turn to be initialization and LCD screen showing the current working condition.

- 1. Channel setting: Press "SET" button for 0.5 second to enter channel selecting menu, the LCD screen will display "FREQUEN" for 1.5 second and indicate to "--PRESS UP OR DOWN TOCHANGE FREQUENCY—"in roll. Press "UP" or "DOWN" to increase or decrease the frequency, then confirm the selected frequency by pressing "SET" button.
- IR Sync: The IR syncing can be used through the menu or shortcuts, please read the operating way as below:
- (A) Shortcut: Press "UP" button doubly, the "IR" light up, which means the receiver is waiting for IR sync. To do the syncing, put the button of thew ireless microphone hand held to face IR Sync window, keep the distance between microphone and receiver within 1 meter, then press the button on the microphone. If IR sync success, the CH in the LCD screen will display "IR.OK" and you can see the RF signal bar on the LCD screen.

(B) Operating on menu: Press"SET" button doubly, the LCD screen will display "SCAN" for 1.5 second and indicate to "--PRESS MANUAL SCANBUTTON TO START SCANNING--" in roll. Then press "UP" button, the LCD screen will turn to be "--PRESSBUTTON AGAINTOSTART IRING-" in roll after displaying "IR" in 1.5 second. To do the syncing, put the button of the wireless microphone handheld to face IR Sync window, keep the distance between microphone and receiver within 1 meter, then press the button on the microphone. If IR sync success, the CH in the LCD screen will display "IR.OK" and you can see the RF signal bar on the LCD screen.

Note: The LCD screen will display "-CHANNEL OCCUPIED PLEASECHOOSE ANOTHER ONE" if the systems was interfered with the other electric equipment. Please select another frequency and keep IR Syncing.

- 3. Automatic Frequency Selection with group scan function
- (A) Shortcut: Press "DOWN" button doubly to scan group frequency automatically and you can see "SCAN" is lighting upon the LCD screen. The system can choose and lock a best frequency after finishing scanning.
- (B) Operating in menu: Press "SET" button doubly, the LCD screen will display "SCAN" for 1.5 second and indicate to "--PRESS MANUAL SCAN BUTTON TO START SCAN NIN G--" in roll. Then press "DOWN" button to start automatic frequency selection with group scan function.

Note Before using this function, please makes ure the transmitter is off. Choosing one of the RF channels for Automatic Frequency Selection, the system will eliminate the interference caused by electric equipments like DVD, TV and etc, then turn on the handheld microphone to do the IR syncing. After that, move to the other channel for automatic frequency selection to a void interference for each channel. The microphone is in good working condition at this moment.

4. Button Locked function

Press "SET" button continuously fourtimes, the LCD screen will display "LOCK" for 1.5 second and the indicate to "--PRESS UPOR DOWN TO LOCK OR UNLOCK --" inroll. Then press "UP" to lock the button,. Will go back to original menu when you press "SET" button or just wait for 12 seconds.

Debugging before operating

- 1. Turn off the transmitter before using the system, put the volume control in minimum position, then switch on the receiver. The receiver turn to be initialization and the LCD screen light up.
- 2. Pleas etune the frequency manually when you have known the bestworking frequency in the area; the Automatic Frequency Selection with group scanfunction can be used under the complex environment. Check to see if the AF and RF signal are normally displayedor not. If not, it means that the receiver was disturbed by other signal. Please reset the frequency accordingly.
- 3. Switch on the handheld or body-pack microphone for a moment, put the microphone handheld to face the the IR Sync receiver. The LCD screen will indicate the level of RF signal and which antenna is working. When you sing into microphone, the receiver will display the volume level accordingly.
- 4. How to control the volume of receiver and amplifier

A. To control the Unbalanced output volume: When you put the volume control in the middle position, the output volume is equivalent to the wired microphone's. Then adjust the receiver's volume controls lightly in order to have best performance. B. It will make distorted sound when you sing into the microphone loudly if the receiver's volume is too high. Conversely, the performance of the microphone will go down for low sensitivity if the receiver's volume is too low.

- 5. How to acquire beautiful sound:
- ① Please make sure the distance between the receiver and transmitter is not too far
- ② Put the receiver away from some large substance that was made of metal.
- ③ Please have the system tested for dead angle before using in stage.

Toubleshooting

Problem	Status in dication	Solution
Nosound	Receiver No lights	Check to see if the operating indicator of transmitter is normal, or the frequency is the same as receiver's.
	Receiver Lights on, AF signal level is flashing by sound volume	Check and makes ure the receiver connect with the other audio equipment properly
	Receiver Light on , AF signal level without Changing by sound volume	Check to see if thetransmitter is working under mute condition
		Move thereceiver away from electric equipment
Distorted sound: Feedback		Choose the other channels for the receiver and transmitter simultaneously
		Check to see if the sound volume of receiver is too high
Trans mitter not working	Operating indicator flash in red	Replace the batteries

Parts Checklist

Han dheld/Body-pack microphone X 2 (optional)
DC power adapter×1
Receiver×1
Male to male cable × 1
Antenna×2
AA battery×4
User manual×1
Charger×1 (optional)