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Acesonic®

USER MANUAL



UHF-5200 PRO

True Diversity 900-MHz
Dual UHF 200-Channels
Wireless Microphone
System

**8 Built-in
Microphone
Effects**



CAUTION: To assure this wireless mic system will work at its best, please read this user's manual carefully before operation and keep it handy for future reference.

www.acesonic.com

DEAR CUSTOMERS

Thank you for supporting our company with your purchase of our wireless microphone system. We are fully committed to serving you with great products and excellent service. To acquire the best possible results and function from this product, please read this instruction manual we have provided carefully before using. This will prevent improper handling or operation and will secure its longevity.

WARNING:

1. There should be a 2 inch minimum gap around the equipment for safe operation & also for sufficient ventilation.
2. Make sure that nothing covers or obstructs the ventilation of the product such as newspapers, curtains or any fabric, etc.
3. Keep this product away from any flammable materials such as candles.
4. The equipment works normally under tropic weather conditions & the variable zone weather.
5. Do not expose this product to moisture and keep away from any liquids (such as flower bottles .etc.) that may damage the equipment or cause it to malfunction.



ACESONIC LIMITED WARRANTY Warranty Procedure

To validate your warranty: Fill out the Warranty Registration Card (below), making sure to include the model and serial number of the unit since this is how warranties are tracked. If you purchased your Acesonic product in the U.S., mail the completed Warranty Card directly to Acesonic within 10 days of purchase. If you purchased the product outside the U.S., you must file your Warranty Registration Card with the distributor in that country. You are advised to keep your bill of sale as proof of purchase should any difficulties arise concerning the registration of the warranty card.

Warranty registration is made and tracked by model and serial number only, not by the purchaser's or owner's name. Therefore any warranty correspondence or inquiries must include the model and serial number of the product in question. Be sure to fill in this information in the space provided below and keep your portion of the Warranty Registration Card in a safe place for future reference.

Warranty service must be performed only by an authorized Acesonic service facility located in the country where the unit was purchased, or at Acesonic headquarters in the U.S. It is recommended that advance notice be given to the repair facility to avoid needless shipment in case the problem can be resolved over the phone. Unauthorized servicing will void any existing factory warranty on your product.

Factory service: To have your product serviced at the factory, it must be shipped fully insured, and in the original packing or equivalent. This warranty will not cover repairs on products damaged through improper packaging. If possible, avoid sending products through the mail. Be sure to include the following with your package:

- Complete return shipping address (P.O. Box return addresses are not acceptable).
- A detailed description of any problems experienced, including the make and model numbers of any other equipment in the audio system you are using.

Repaired products will be returned freight C.O.D. unless sufficient return shipment funds, plus shipping instructions, are included with the returned unit.

Products sent to the factory from outside the U.S. must include return freight funds, and the sender is fully responsible for all customs procedures, duties, tariffs and deposits.

Record the model and serial number here and retain this portion of the warranty card for your files:

Model: _____ Serial No.: _____

Purchase Date: _____

----- *Detach this portion and mail it to Acesonic's U.S. Headquarters* -----

Model: _____ Serial No.: _____

Purchase Date: _____

Owner Name: _____ Address: _____

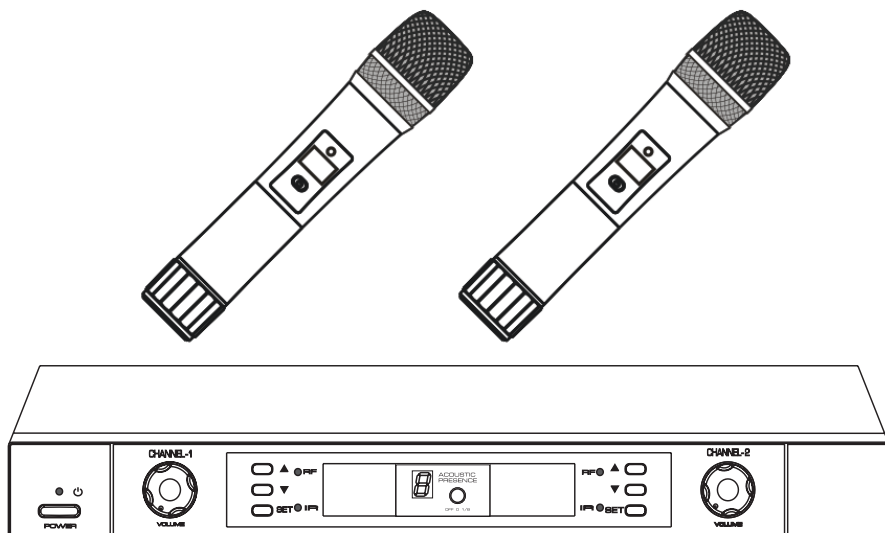
City, State, Zip, Country: _____

E-mail Address: _____ Telephone: _____

The following information is appreciated, but not required:

Dealer Name, Address, City, Country: _____

Please tell us what other product changes you would like to see, what other product/models you would like to see manufactured and any other comments: _____



6. SPECIFICATION

1) Overall characteristic

Frequency range: UHF900-960MHz (Digital transmission) The concrete frequency is decided by the technique provision of the system usage place

Digital modulation Mode: pi/4DQPSK

Occupied bandwidth:300KHz

Transmission rate: 204.8Ksps

S/N: 90dB

Frequency response: 50~15KHz

2) Handheld microphone transmitter

Transmit mode: Audio and data using encrypted digital transmission

Dedicated data channel: 7kbps, internal CRC check

Capsule: dynamic

Transmitting power: $\leq 10\text{dBm}$

Frequency stabilization: $\pm 0.005\%$

Battery: two piece batteries of 1.5V

3) Receiver

Receive mode: Digital decryption receive

Sensitivity: -94dBm

BEFORE YOU OPERATE THE MACHINE:

Know your Receiver

For power supply information, front and rear panel function: please refer to the receiver's function declaration on page 4 & 5

Know your Handheld style Transmitter

For power supply information & other functions: please refer to the handheld style transmitter's function declaration on page 6

For LCD function: please refer to the handheld transmitter's LCD function on page 7

Receiver and transmitter equipment

For frequency selection, the function of LCD display: please refer to the system equipment on page 8 & 9

For instructions on matching & synchronizing the frequency of both the receiver & transmitter: please refer to the System operation instruction on page 9

System's malfunction and maintenance

Please refer to the "system maintenance" & "troubleshooting" on page 11

1. PRODUCT INTRODUCTION

(a) Wide band UHF frequency transmission

This system uses the UHF digital transmission. The frequency ranges between 900MHz-960MHz. Using this function can solve the existence of a frequency “traffic jam” and all kinds of wireless interference caused by using the VHF (160MHz – 260MHz) band wireless microphone

(b) CPU control

The whole system is controlled by a micro computer that selects the frequency, the display, mute setting, and analyzes various functions which a traditional model may not be equipped to handle.

(c) LCD display

All of the menu items are displayed on the LCD screen for easy control of the system. The content of the display include the frequency, channel, mute level, RF signal level, the audio signal level, etc

(d) Digital frequency synthesis technology

The oscillation mode of this system, relative to the wireless system controlled by the quartz, uses a digital frequency synthesizer that has a higher frequency stability. This is an excellent characteristic that promotes the multi-channel function capability of this system. Depending on the electromagnetic conditions of the Environment, the user can now choose a clean frequency that is not subject to any interference.

(e) Infrared data transmission and synchronization

After the receiver adjusts the receiving frequency, use infrared to transmit & sent out the corresponding frequency settings to the microphone, be sure to synchronize both transmitting & receiving frequency data.

(f) Digital transmit-receive encryption

Dedicated data channel: 7kbps, internal CRC check, Audio and data using encrypted digital transmission. Each channel has a unique ID code, stop all external signal interference

5.TROUBLESHOOTING

Issue	Indicator Status	Solution
No sound or faint sound is produced	The LCD backlight does not light up when you turn ON the mic	*Make sure the battery is inserted correctly and the battery is fully charged.
	Receiver LCD screen does not turn on	*Make sure AC adapter is securely plugged into an electrical outlet & the DC input connector into the rear panel of receiver. *Make sure AC electrical outlet works and is at the proper voltage
	Receiver LCD shows antenna is working effectively	*Increase the receiver volume control *Increase the gain switch on the mic *Check the cable connection between the receiver and amplifier or mixer
	Receiver LCD shows antenna failure or is not working	*Make sure antenna is vertically upright *Keep metallic objects away *Remove any obstruction between the receiver and microphone *Move the mic closer to the receiver *Check if the receiver and microphone is using the same frequency
	Transmitter indicator light is constantly on.	*Replace or recharge the microphone battery
Distortion or unwanted noise occurs	Receiver LCD shows antenna is working effectively	*Remove any nearby sources of RF interference (CD players, wireless devices, etc.) *Reduce mic gain or replace battery *Change the receiver and microphone to a different frequency *If using multiple systems, change the frequency so they're further apart

B. System setting

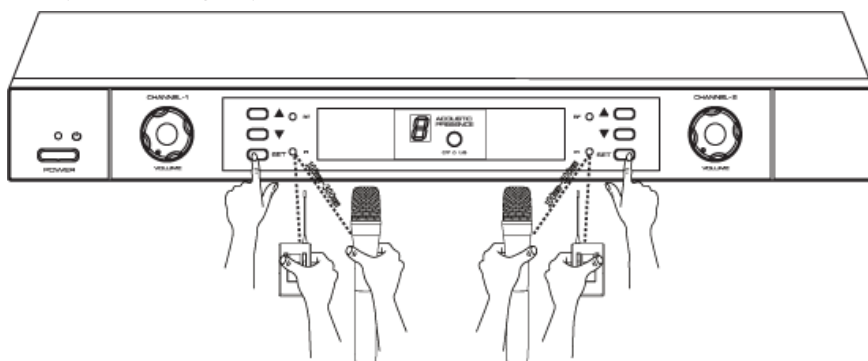
(a) Single system setup

1. Set the receiver to an available channel (please reference the method of frequency set on page 9).
2. Turn on the microphone, aim the infrared sensor in front of the receiver, then press the “SET” button on the receiver
3. Match the transmitter frequency to that of the receiver. After setting the transmitter, the receiver automatically exit the infrared transmission status.

(b) Multi-system equipment

1. Turn all receivers on and transmitters off.
2. Set all the receivers to different frequency (Please reference the method of frequency set on page 9).
3. Turn on the first transmitter.
4. According to the preceding “single system settings” section in the operating manual to operate. Repeat for each system

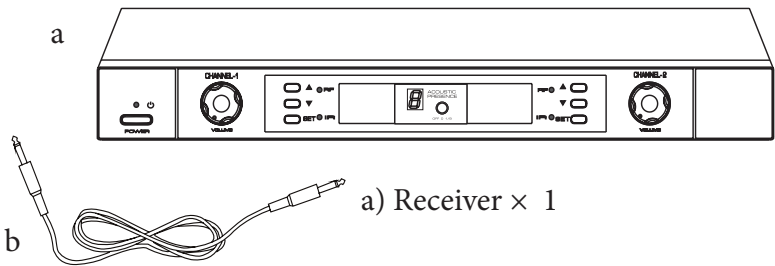
Note: Be sure that only one transmitter’s infrared port is exposed when synchronizing a system



C. Some tips for improving the system performance:

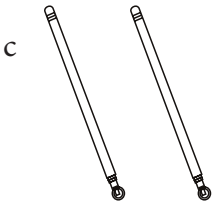
- a) The transmitter and antenna should keep an unobstructed straight line that is relative to one's position
- b) Do not place the receiver close to any metallic surfaces or any digital device (such as CD player, computer, and so on).
- c) Use the power line fixed fitting to fix the AC power adapter power supply on the receiver.

2. SYSTEM COMPONENTS

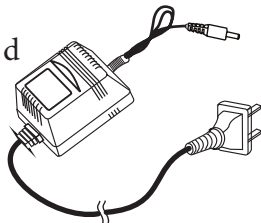


a) Receiver × 1

b) 1/4 inch connector × 1



c) Antenna × 2

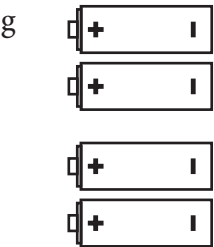
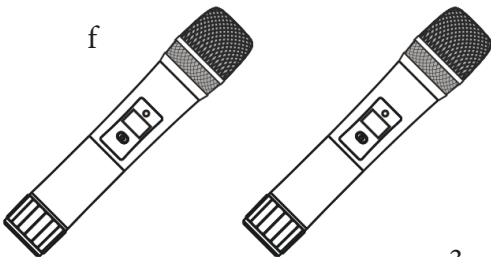
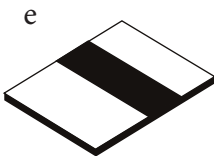


d) Power supply component × 1

e) Operating Instruction × 1

f) Handheld transmitter × 2(optional)

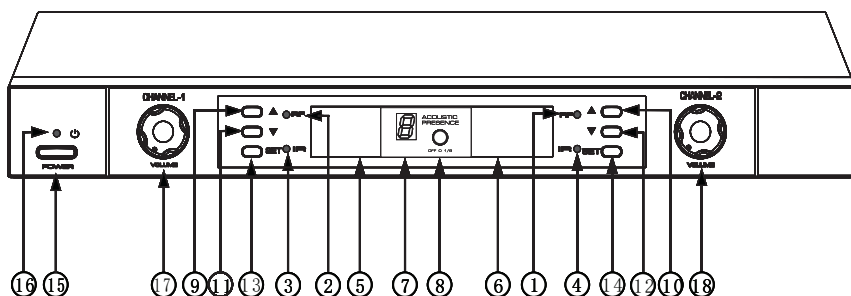
g) 1.5V battery × 4



3. FUNCTION INSTRUCTION

1). RECEIVER

A. Front Panel



(1)&(2) Received RF signal indicator light

(3)&(4) Infrared data transmission launch light

(5)&(6) LCD screen: to indicate the function

(7) Microphone effect digital display screen

(8) Microphone effect select key: 8 different kinds of sound effect for choose.

(0: Standard 1: Boost 2: Treble 3: Pop 4: Rock

5: Classic 6: Jazz 7: Dance 8: R&B)

(9)&(10) UP key “▲”

(11)&(12) DOWN key “▼”

(13)&(14) SET key, Infrared data transmission launch button; long press SET key, then Press UP key “▲”, it will automatic search and select no interference channel

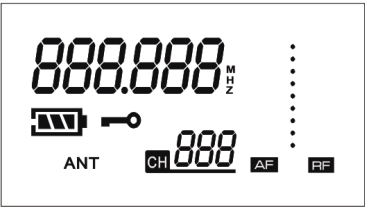
Upward; press the DOWN key “▼” in the same way

(15) Power switch

(16) Power indicator: the indicator light will lite up when the unit is in stand by mode. When the unit is on, the LCD display will turn on and the indicator light will be turned off.

(17)&(18) Volume knob: Adjust the output volume, counterclockwise rotation, the volume will weaken; clockwise rotation, the volume increase.

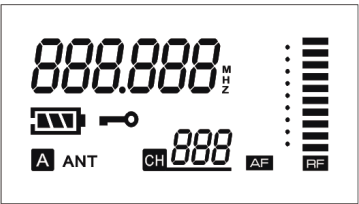
(b) Pairing the microphone with the receiver



After receiver channel have been selected, press “SET” button. The IR indicator light will blink when its ready to be synchronized with a Microphone. The IR indicator light will stop blinking once the receiver has synced with a Microphone.

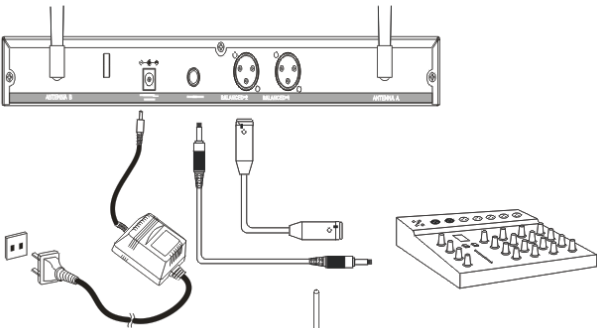
The receiver will exit the synced model if it does not pair with any microphone within 10

(c)Antenna Status



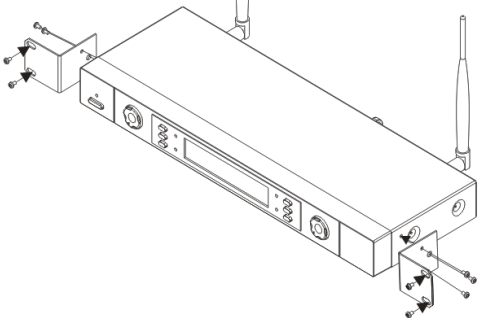
Display RF activity. Only one antenna is active at any given time

(d) Connection method



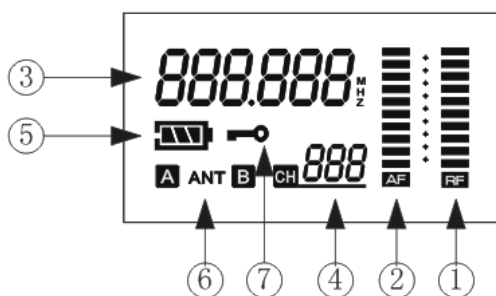
(e) Receiver frame installation

The receiver can be installed on a 19 inch server rack by using mounting bracket. As shown in the diagram.



4. SYSTEM SETUP

Receiver LCD display function



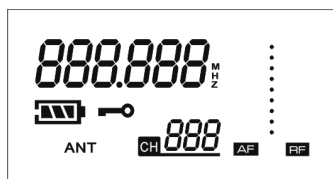
- (1) Radio frequency (RF) signal level display.
- (2) Audio frequency (AF) signal level display.
- (3) Frequency indicator .
- (4) Display the unit channel number
- (5) Display the battery level of handheld/bodypack transmitter
- (6) The effective position of antenna A and B. Select antenna A from receiver channel while it shows A in the effective position, or select B antenna channel while it shows B.
- (7) Squelch locked display

The system of an RF signals detection. Display RF signal shows that the same RF signals are received; oppositely, it shows there are not any RF signals. Any of the options displayed on the screen after 10 seconds are generally “time out” to exit, Go back to the last setting working state

A. Receiver set

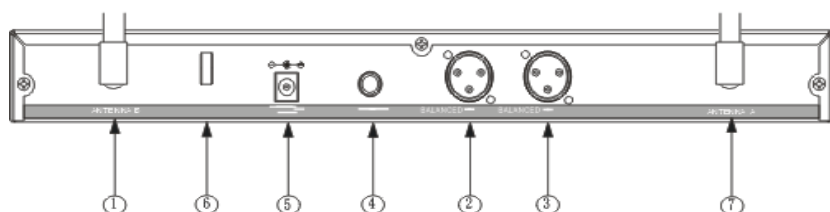
Receiver LCD screen displays the current working frequency under normal working conditions.

(a) Frequency setting



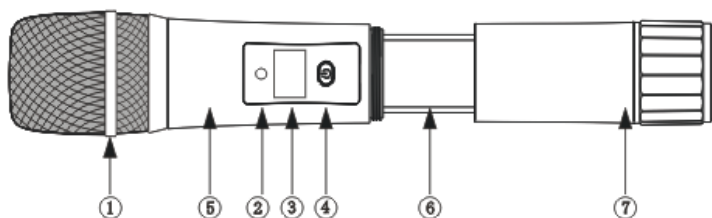
Select the appropriate setting using the UP▲ & DOWN▼ buttons, & press SET key to make your choice. If you do not press SET key in your Choice. Within 10 seconds, it automatically go back to its original setting.

B. Rear Panel



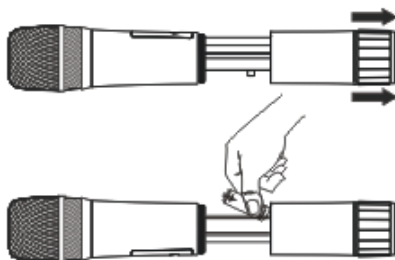
- (1) Antenna B connector
- (2) XLR balance audio output socket A.
- (3) XLR balance audio output socket B.
- (4) Un-balanced mixing audio output socket: offer un-balanced mixing audio signal output with 1/4 inch jack
- (5) Power input socket. connect to 12V DC power adapter. The voltage cannot be lower than 12V and can not exceed 15V
- (6) Power line fixed fitting: tie the DC power cable to the fitting to prevent accident removal of the cable
- (7) Antenna A connector

2). HANDHELD MICROPHONE TRANSMITTER



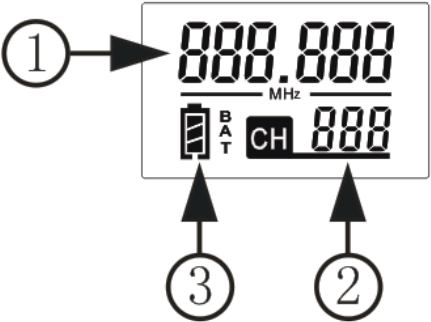
- (1). Sound head module: the main component to change the sound into the frequency signal, it can be part from the body, and can be easy changed according to different
- (2). IR transmitter window.
- (3). LCD screen: to indicate the function. Low voltage indicator: when the display screen continued to shine, at this point the capacity of the battery is not enough to keep the transmitter work half an hour. User should quickly replace the battery at this time.
- (4). Power switch: Press once to power on the microphone; press and hold to power off the microphone
- (5). Body: the top side of body is assembled with the sound head module, and inside is assembled with the transmitting circuit board, and the bottom is connected with the battery holder and cover.
- (6). Battery holder: microphone needs two pieces of battery of 1.5V.
- (7). Battery cover: unscrew the battery cover counterclockwise, and make sure the sign “+/-” of the battery, then the fill in battery of 1.5V.

>Replace the battery



When the battery level in the LCD display begins to blink, replace the old battery with a new one. As shown in the above diagram

Handheld transmitter with LCD displays function.



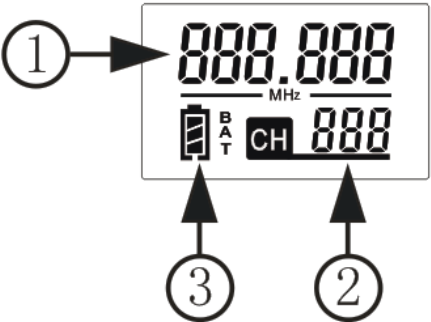
(1) Frequency indicator.

(2) Display the unit channel number

(3) Battery level indicator

Power saving design: after setting the transmitter, generally 10 seconds later, the LCD backlight will automatically turns off.

Wearable transmitter with LCD displays function.



(1) Frequency indicator.

(2) Display the unit channel number

(3) Battery level indicator

Power saving design: after setting the transmitter, generally 10 seconds later, the LCD backlight will automatically turns off.