

MICROPHONE

UHF

WIRELESS MICROPHONE
PROFESSIONAL SYSTEM

USER MANUAL



THE VOCAL ARTIST

This manual applies to the 2-channel "U-220" or 4-channel "U-440" wireless microphone.

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/// USER NOTICE

STATEMENT

- Due to product updates, the graphics provided in this user manual may be different from the actual product, please refer to the product you purchased.
Due to technical updates, there are functional differences in the product without notice.

CAUTIONS

- Do not use or store the unit in highly humid environments, strong electromagnetic fields, strong direct sunlight, or sustained high temperatures
- If it is out of service for a long time, the receiver should be unplugged and the transmitter batteries removed.
- It must be unplugged and cleaned with a damp cloth before cleaning. Do not use any detergents or soluble liquids as this will damage the surface finish layer.
- If there is any malfunction or performance degradation of this machine, please do not disassemble the casing for maintenance by yourself, which may cause you risk of electric shock or serious damage to the machine and loss of warranty, please contact your local distributor or the factory, and we will be happy to do our best for you.
- Use manufacturer supplied accessories or approved accessory products for optimum performance.
- This machine does not contain modifiable parts, please do not disassemble and modify it by yourself, or you will lose the warranty power.

SIMPLE TROUBLE SHOOTING

- 1. No indication from transceiver:** Transmitter battery drained, receiver not connected to power supply.
- 2. No RF signal from receiver:** Transmitting and receiving on different frequencies or out of receiving range.
- 3. RF signal but no audio signal:** Transmitter microphone not connected or receiver squelch too deep.
- 4. Too much background noise in the audio signal:** Transmit modulation frequency bias is too small, receive output level is low, maybe there is an interference signal.
- 5. Audio signal distortion:** Transmitter modulation frequency bias is too large, receiver output level is too high.
- 6. Shorter use distance, unstable signal:** Transmitter set at low power, receiver squelch too deep, receiver antenna set incorrectly, surrounded by strong electromagnetic.

/// TECHNICAL PARAMETERS

SYSTEM CHARACTERISTICS

Band type	U-band
Frequency range	542.25 – 589.5
Number of channels	4*34
Signal-to-Noise Ratio (S/N)	98dB@1Khz
T.H.D Total Harmonic Distortion	<1.0%@1Khz
Maximum frequency deviation	±50Khz
Input / Output	Transmitting 1Khz signal, 100mV (-18dBm) 15th volume level Receiving DC12V powered output 775mV (0dBm)

RECEIVER

Receiver supply voltage	DC12V/1A
Receiver operating current	70mA
Receiver sensitivity	-90dBm

TRANSMITTER

Transmitter current	140mA/DC3V
Firing power	<10mW
Battery Specifications	AA*2

/// PANEL INTRODUCTION

2-CHANNEL PANEL INTRODUCTION

FRONT PANEL



① Volume control

② Liquid crystal display screen

③ Power switch

REAR PANEL



① Antenna Interface
② Balanced output

③ Audio output
④ Power Connection

/// PANEL INTRODUCTION

4-CHANNEL PANEL INTRODUCTION

FRONT PANEL



① Volume control

② Liquid crystal display screen

③ Power switch

REAR PANEL



① Antenna Interface
② Balanced output

③ Audio output
④ Power Connection

HANDHELD MICROPHONE



HANDHELD FM METHOD



Each channel of the wireless microphone has 34 frequency bands. During frequency modulation, the handheld transmitter will display "CH01-CH34" corresponding to each frequency band, and the corresponding frequency will also be displayed on the receiving host and handheld transmitter screens.

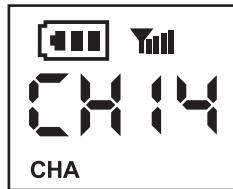
Converting the frequency band can be operated through "button 9". (The product comes with a small screwdriver for easy pressing of the FM button.)

Press "Button 9" lightly to display the current frequency band, and press it again to switch to the next frequency band.

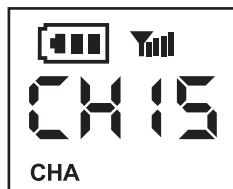
Watch page 8 for details

FM CASES

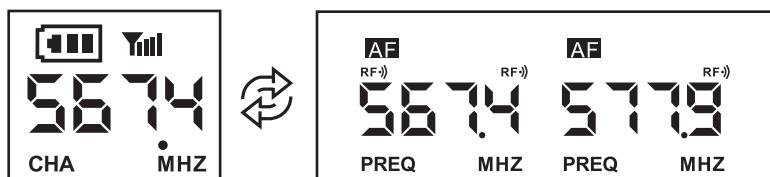
- Press "Button 9" to display the current frequency band in CH14



- After lightly pressing "Button 9", the screen flashes.

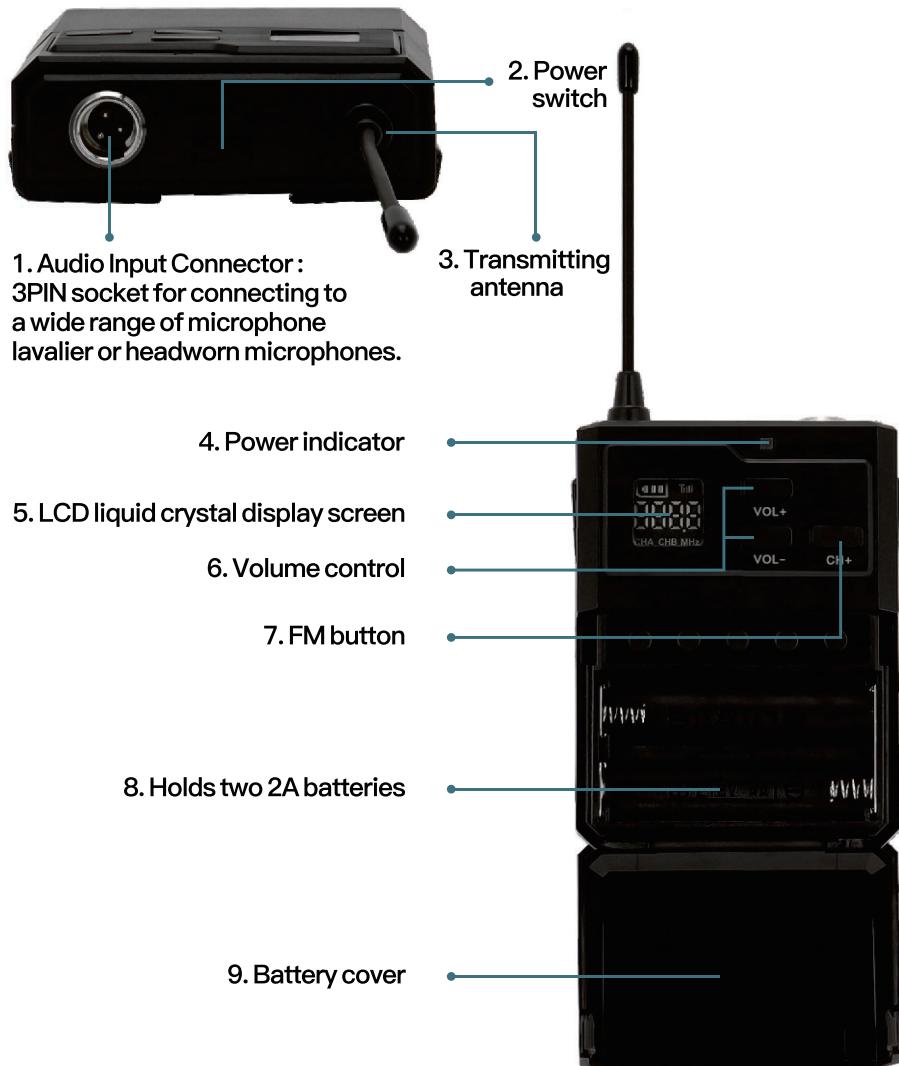


- After successful switching, the handheld and receiver will switch to the corresponding frequency at the same time.



When adjusting the frequency, keep the handheld microphone and the receiver at a distance of 10–20CM. There is no need for frequency matching and automatic switching with one click.

LAVALIER MICROPHONE



/// LAVALIER MICROPHONE INTRODUCTION

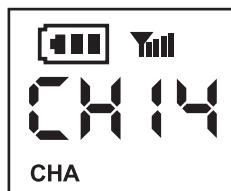
Each channel of wireless microphone has 34 frequency bands, when tuning the frequency, the lavalier transmitter will correspond to each band display : “CH01-CH34”, there will also be a corresponding frequency display in the receiving host and the lavalier transmitter screen.

Converting the frequency band can be operated through “key 7”.

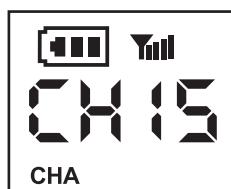
Press “Button 7” lightly to display the current frequency band, and press it again to switch to the next frequency band.

FM CASES

- Press “Button 7” to display the current frequency band in CH14

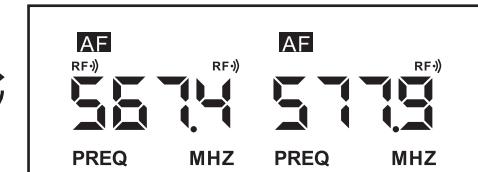
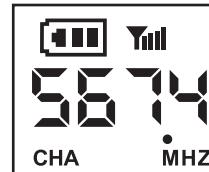


- After lightly pressing “Button 7”, the screen flashes, and the lavalier transmitter displays CH15



/// LAVALIER MICROPHONE INTRODUCTION

- After successful switching, the lavalier and receiver will switch to the corresponding frequency at the same time.



When adjusting the frequency, keep the distance between the collar and the receiver 10-20CM. No need to adjust the frequency, it will switch automatically with one click.

FREQUENCY LOCK SETTING

Suitable for 2-channel “U-220” or 4-channel “U-440” wireless microphone.

This function is mainly used for two or more wireless microphones to be used at the same time. This operation cannot be deactivated after it is set.

It does not affect normal use and frequency modulation. It just locks the handheld microphone or lavalier microphone that comes with this unit to avoid cross-frequency interference caused by other microphones.

See page 12 for operational details

/// OPERATION WITH 2 OR MORE MIC AT THE SAME TIME

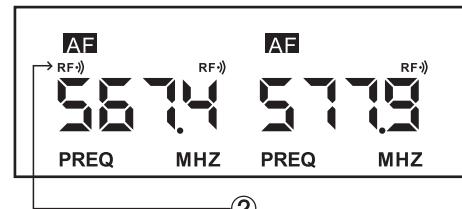
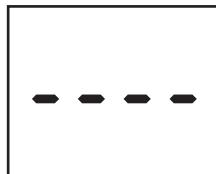
OPERATING METHOD

- Make sure that the wireless microphone receiver that needs to be frequency locked is working and the handheld microphone transmitter is turned off. Wireless microphones shared in the same environment must have both the receiver and transmitter turned off to avoid affecting the frequency locking operation.

1. Open the battery compartment of the handheld microphone, first press the “FM button” without releasing it, and then press the power button of the handheld microphone without releasing it.

You can release the two buttons until “----^①” appears on the display. At that time, the link indicator RF^② on the receiver will light up and the display will display normally.

In this way, the frequency locking operation of the channel is completed, and the channel only accepts the signal of the handheld microphone (lavalier microphone) that is frequency locked.



2. Each channel of the frequency locking settings are completed in accordance with the above operations
3. After locking a whole set of wireless microphone, and then lock the next set, repeat the steps of “1”.
4. After the frequency lock setting of all machines is completed, the frequency modulation operation can be performed. Make sure that each channel of each set of wireless microphones cannot repeat the frequency.

For example :

Channel A/B of wireless microphone A uses the "CH01" frequency band, then channel A/B of wireless microphone B uses "CH03" or other frequency bands until there is no interference. It is recommended that each channel be separated by 3-4 frequency bands.

/// WIRING DIAGRAM

METHOD 1: INDIVIDUAL CONTROL

- Microphone receiver with XLR balanced outputs at the back, using XLR canonical cable, each output is connected to the mixer or other equipment XLR connector, to achieve individual control of the corresponding channel of the microphone's volume or high, medium, bass and so on.



/// WIRING DIAGRAM

METHOD 2 : OVERALL CONTROL

- Use the 6.35mm cable that comes with the microphone itself to connect it directly to a mixing console or other equipment to realize single-channel control of the overall microphone's volume or high, medium, and low tones from the mixing console or other equipment.



FCC Warning:

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.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

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.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 0cm between the radiator and your body.