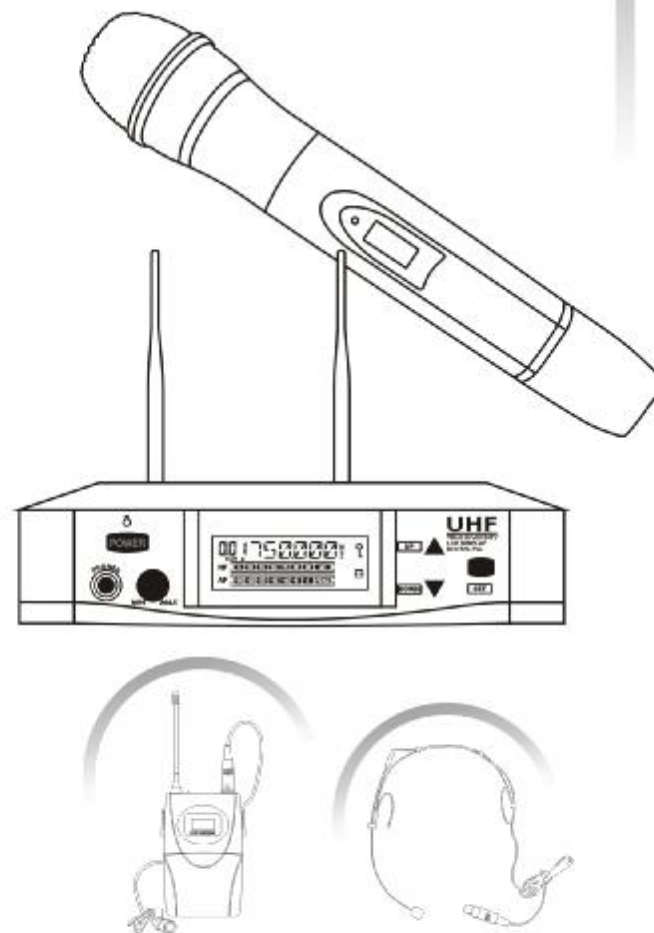


Installation & Operation

20050901

UHF

PROFESSIONAL WIRELESS MICROPHONE SYSTEM



Installation & Operation

CATALOG

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FOREWORD

Thank you for choosing our product (U-9000). The product is adopted the advanced technical design from America, it is a wireless receiving system which has excellent property.

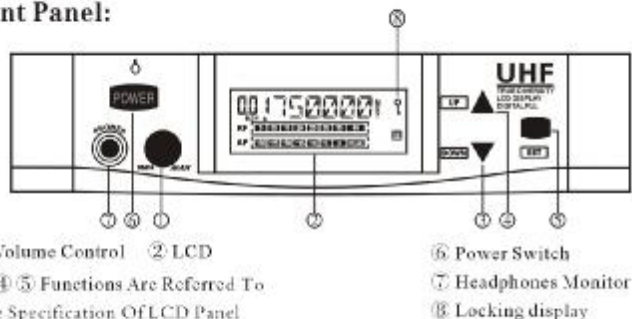
The system has the characteristic as follows:

- 1.The working frequency range: UHF520~810MHZ (tunable)
- 2.CPU control (PLL frequency compose technique)
- 3.Channels: 16 or 100 (optional & tunable)
- 4.True diversity system control by CPU for the advance break up function and control receiving of the right and left channels.
- 5.Big LCD (Liquid Crystal Display)
- 6.The transmit and receive audio system is adopted high-pass, low-pass & band-pass filter technique to avoid noise and keeps sound quality.

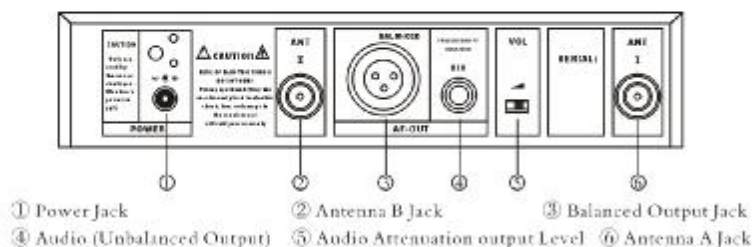
RECEIVER SPECIFICATION

A. Names & Function:

Front Panel:



Rear Panel:



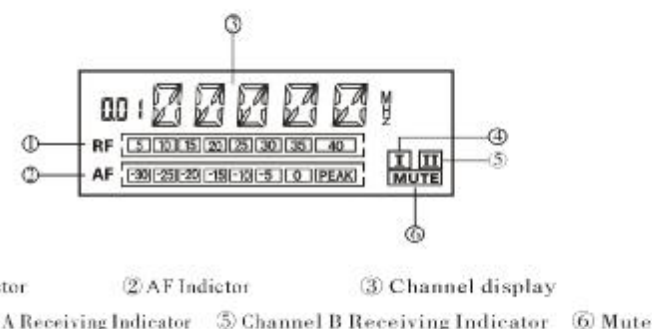
B. Receiver Installation Specification:

1. Install two antennas to the antenna socket A B of the rear panel respectively, the direction between them should be adjusted about 90°C
2. Insert the plug of the distributed outside power on the socket of the rear panel (Caution: the system voltage should accord to the local voltage restrict)
3. Turn the volume to the minimum, press the power switch about 1~2 seconds, LCD will display the normal screen
4. Adjust every function button to the required status (The specification will be introduced in the LCD panel function)
5. Press power switch 2~3 seconds to cut off the power after using. After LCD display the below screen, it will be off automatically.



C. LCD Panel operation.

1. After turn on the power, LCD is light up as screen:



2. Button names and function introduction

- ① Button "SET", menu choosing and confirmation button, press the button can choose the function menu which is required change. After using button "▲" or "▼" to change the function status, please press "SET" to confirm.
- ② Button "?" or "0" is to adjust or choose present status of every menu.
- ③ Button "SET" Operation Orders: Press "SET", LCD will display the right screen: (Which of the above screen display accord to the channel choosing function) The menu displays the previous working frequency and channel of the receiver (it can be transferred by the channel choosing menu), press "▲" or "▼" can change the present channel or frequency, after then press "SET" to confirm to work in a resetting channel or frequency. Or it will be ineffective, the receiver still work in a previous status. If you choose a new channel or frequency, but not press "SET" to confirm, LCD screen will flash to remind you, press "SET" to confirm, LCD will stop flashing.

(a) Channel display and Menu Adjustment:

Press "SET", LCD will display below screen:



The menu displays the previous working frequency and channel of the receiver (it can be transferred by the channel choosing menu), press "▲" or "▼" can change the present channel or frequency, after then press "SET" to confirm to work in a resetting channel or frequency.

Or it will be ineffective, the receiver still work in a previous status. If you choose a new channel or frequency, but not press "SET" to confirm, LCD screen will flash to remind you, press "SET" to confirm, LCD will stop flashing.

(A) The Receiver Sensitivity Adjusting Menu:

(SQUELCH) Press "SET", LCD will display below screen:



The screen will display below screen after 2~3 seconds:



(Remark: the above screen display accord to the previous setting status)

This menu is channel choosing display of the receiver, displaying in frequency or channels (0~F) 16 channels or 0~99 100 channels. When pressing button "▲" or "▼" to change, LCD will display two ways: "CHANNEL" or "FREQU", select the "CHANNEL". When choosing "CHANNEL", it will display in numerical value of channel. When choosing "FREQU", it will display in actual frequency. Please press "SET" to confirm after choosing, otherwise it will be ineffective, and the channel is still displaying the previous status.

When changing the choosing but now confirm, LCD screen will flash to remind you after 2~3 seconds, please press "SET" if you want to change, and the LCD will stop flashing, if not you can quit directly.

(B) System Locking Menu:

Press "SET", LCD will display below screen:



(Remark: which of the screen display accord to the previous setting status)

Press "SET", LCD will display below screen:



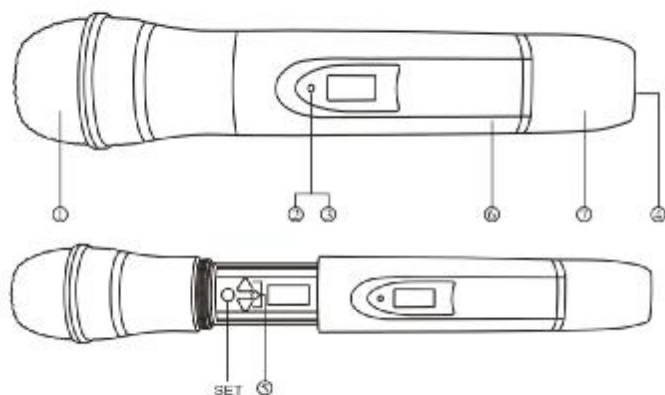
This function is whether locking the present working status of the receiver (channels, sensitivity, display, choice, power switch etc.). If it is in the locking status "LOC ON", neither it can change the present working status, nor can turn down. If it isn't in the locking status "LOC OFF", it can change all menu functions.

When pressing button "▲" or "▼" to change the previous status, please press "SET" to confirm, or it will be ineffective.

When changing the previous status, but not press "SET" to confirm, LCD will flash to remind you after 2~3 seconds. Press "SET" to confirm, LCD will stop flashing.

HANDHELD TRANSMITTER SPECIFICATION

A. Names & Function:



Uncover Looking Of the Handheld Transmitter:



① Condenser and grille

② Battery low voltage-green indicator

When the battery voltage is lower than the normal, it will light up to remind to change the battery in time.

③ Battery normal voltage--red indicator when switch on, it will light up, when the battery voltage is lower than normal, it will be off.

④ Power Switch

Press the "PUSH" at the tail (POWER), the LCD will display "ON" at normal work. Press "PUSH" again, the LCD display "OFF" and stop working.

⑤ Channel Choosing, Select List and Setting Button

Adjust the button to the required channel (0~F, 16 or 0~99, 100 channels). Be careful not to adjust too hard, too quick, avoid the damage for the apparatus.

⑥ Battery Cover

Open the battery cover, put 2 pieces of AA type Alkaline battery, avoid putting polarity in an opposite direction, or it may be damaged.

⑦ Transmit Antenna

When using it, please fix the transmitting antenna. After using it, please take off antenna to avoid damaging.

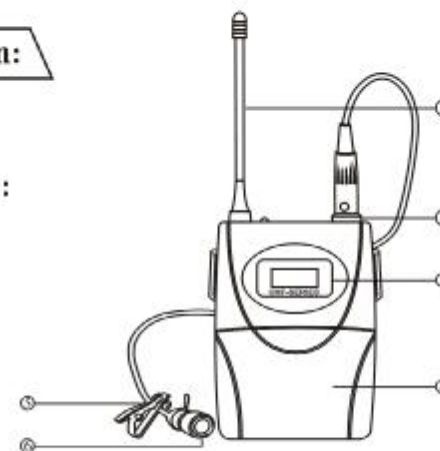
TIE-CLIP TRANSMITTER SPECIFICATION

A. Names & Function:

Transmitter:

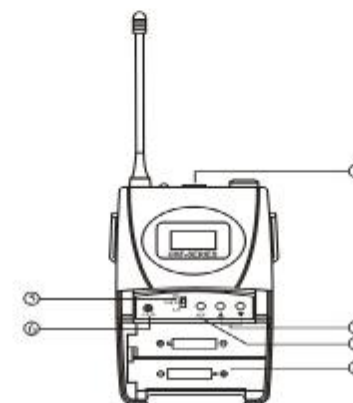
Outside Picture:

1. Antenna
2. Jack of Microphone
3. LCD
4. Battery Cover
5. Tie-Clip
6. Microphone

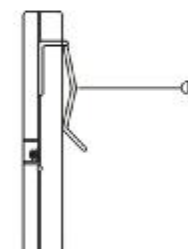


Inside Picture:

1. Power Switch
2. Channel Selecting
3. Setting
4. Battery Box
5. Transmitter Power Selecting
6. Volume Control



Side-face Picture :

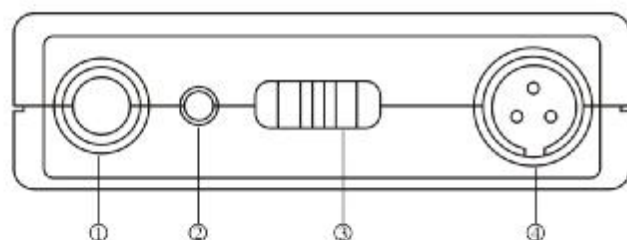


Headset Microphone (Accessories):



Operating Panel

Apical Panel



- ① Antenna Jack
- ② Power Indicator
- ③ Power Switch
- ④ Microphone Jack

B. Tie-Clip Transmitter Installation Specification:

1. Connect the microphone jack on the apical panel
2. Put 2 PCS 5# alkaline batteries in the battery box.

LCD Panel Operation

1. Turn "Power" to the "ON" situation on the apical panel, then the LCD display as follow screen:



2. Button Name & Function:

① Button "SET", menu choosing and setting button, press the button can choose the function menu which is required change. After using button "?" or "V" to change the function status, please press "SET" to confirm.

② Button "▲" or "▼" is to adjust or choose present status of every menu.

③ Button "SET" operation orders:

Adjustment of channel displays DISPL, adjustment of system locking indicate LOC SET

a. Channel display and Menu Adjustment:

Press "SET", LCD will display the below screen:



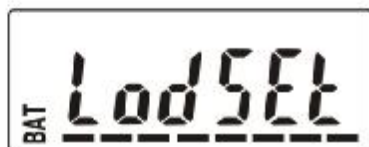
(Remark: The above screen display accord to the channel choose function)

The menu displays the previous working frequency and channel of the transmitter (it can be transferred by the channel choosing menu), press "▲" or "▼" can change the present channel or frequency, then press "SET" to confirm to work in a resetting channel or frequency. Or it will be ineffective, the transmitter still work in a previous status.

If choose a new channel or frequency, but not press "SET" to confirm, LCD screen will flash to remind you, press "SET" to confirm, LCD will stop flashing.

Channel Choosing Menu:

Press "SET", LCD will display the below screen:



After 2~3 seconds, will display as below screen:



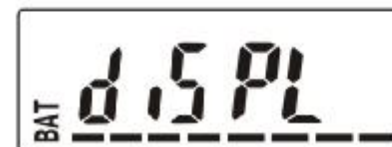
(The above screen displays according to the previous setting status)

The menu displays the previous working frequency and channel of the transmitter (it can be transferred by the channel choosing menu), press "▲" or "▼" can change the present channel or frequency, then press "SET" to confirm to work in a resetting channel or frequency. Or it will be ineffective, the transmitter still work in a previous status.

If choose a new channel or frequency, but not press "SET" to confirm, LCD screen will flash to remind you, press "SET" to confirm, LCD will stop flashing.

System Locking Menu:

Press "SET", LCD will display the below screen:



After 2~3 seconds, will display as below screen:



(The above screen displays according to the previous setting status)

The menu function is for locking transmitter working status (Channel, Displaying, Selecting, Power ON/OFF etc.). If it is "LOC ON", can not change the present working status, also can not power off the receiver. If it "LOC OFF", can change all of the menu have been set.

When press "▲" or "▼" can change the previous status, and then press "SET" to confirm, otherwise it will be ineffective.

When changing the previous status, but not press "SET" to confirm, LCD will flash to remind you after 2~3 seconds. Press "SET" to confirm, LCD will stop flashing.

TECHNICAL SPECIFICATION

A. OVERALL SYSTEM

- 1.OSD Model: PLL LOCK
- 2.Operating Frequency: 520~820 MHZ (Tunable)
- 3.Modulation Model: FM
- 4.Maximum Deviation: ± 45 KHZ
- 5.Frequency Response: 80HZ~15KHZ(± 3 db)
- 6.Image rejection: $\leq 1\%$
- 7.Operating Temperature: $-10^{\circ}\text{C}\sim +55^{\circ}$

B. HANDHELD TRANSMITTER

- 1.Output Power: 25 ~ 30 mW
- 2.Harmonic Interfere Ratio: -50dB
- 3.Battery: 2 PCS AA Type Alkaline Battery
- 4.Cartridge: Dynamic

C. TIE-CLIP TRANSMITTER

- 1.Output Power(Lower): 4~6 mW Output Power(Higher): 20~30mW
2. Harmonic Interfere Ratio: -50dB
- 3.Battery: 2 PCS AA Type Alkaline Battery
- 4.Cartridge: Single polar Pattern capacitance Microphone

D. RECEIVER

- 1.Sensitivity: 12dBuV (80dB S/N)
- 2.Sensitivity Range: 12~32dBuV
3. Harmonic Interfere Ratio: ≥ 75 dB
4. Audio Output:
Balanced: 0~0.5V/600 Ω
Audio output: 0~0.5V/5K Ω
- 5.Power Supply: Connect direct power 12~14V
- 6.Current: 300 mA

CAUTION

1. When the receiver is on, displaying "UN LOC", or the red light continue flashing after turn on the transmitter, it means that there is something wrong with the receiver or the transmitter, please send to the manufacturer.
2. If it needs to use several systems, please choose the frequency (or channel) carefully, avoid interfering.
3. The input power voltage of receiver's outside power is 200V ($\pm 10\%$), it may effect the receiver if it is lower or higher.
4. When putting the battery into the transmitter, avoid putting polarity in an opposite direction, or it may be damaged.
5. When using the function of choosing sensitivity of the receiver, the least figure you choose should be 15dB, or the S/N will be worsening in a further distance.

The system include the accessories as follow:

Receiver: 1 Set
Handheld Transmitter: 1Set Tie-Clip Transmitter: 1Set
Antenna: Receiver 2 PCS Handheld Transmitter 1 PC Tie-Clip Transmitter 1 PC
AC Adapter: 1 Set
User Manual: 1 PC