

OPERATION MANUAL

U-1



UHF PLL MULTI CHANNELS WIRELESS MICROPHONE

UHF PLL MULTI CHANNELS WIRELESS MICROPHONE SYSTEM

Thank you for selecting our UHF PLL Synthesized Wireless System. Before operation please read this instruction manual carefully in order to attain the correct operating procedures and achieve the best results.

This UHF wireless receiver is with advanced PLL synthesized circuit which can eliminate the random noise interference effectively when the receiver is at standby state. The receiver has both balanced and unbalanced outputs suitable for all amplifiers input.

This system includes the following accessories:

- | | |
|--------------------------|--------------------------|
| 1. Audio Output Cable x1 | 2. Instruction Manual x1 |
| 3. Antenna x2 | 4. AC/DC Adapter x1 |

1. RECEIVER PARTS DESCRIPTION

A. Front Panel

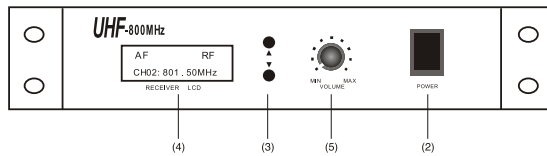


Fig.1

B. Rear Panel

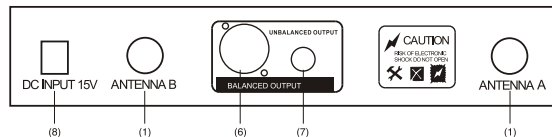


Fig.2

3. TRANSMITTER

TRANSMITTING POWER:	8.5mW
MODULATION TYPE:	FM, F3F
MAX DEVIATION:	±25Khz
SPURIOUS EMISSION:	>40dB (WITH CARRIER)
POWER SUPPLY:	9V battery
BATTERY LIFE:	6 hours (GP) 1604s 9V battery
NOISE CONTROL:	perfect circuit for eliminating noise

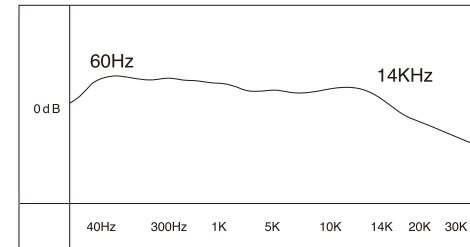


Diagram of AF Frequency Response

8. IMPORTANT SAFEGUARDS

1. Avoid putting the main machine in a blind angle when it is used. This is to keep signal reception in good condition.
2. Don't throw, fall, toss, cast the handheld microphone so as not to damage it seriously.
3. Please keep the machine from direct sunshine or rains. Place it in a place far away from the magnetic field.
4. Don't open it yourself because there is high voltage in it.

9. CAUTION

1. The installation of receiver antenna influences the operating efficiency of the receiver. Place receiver and microphone as short as possible for better reception and performance.
2. The external DC power supply should not be below 12V. Otherwise it would not work properly. If it is over 15V, some components of the receiver will be damaged due to higher current. Use minimum 1A power supply.

6. TROUBLESHOOTING

1. Turn on the receiver, but the indicator is not lighted.
 - Make sure the power cable is well fixed and the socket is in good condition.
 - Check if the fuse is blown.
2. When you speak, the "AF" light twinkles but no sound output.
 - Check if the volume is in lowest place or the audio cable is not fixed well.
3. The effective signal-receiving distance becomes close. And signal-receiving is not well. Sound quality is bad.
 - Check if the battery power is low. Change new battery.
 - Check if there are same frequency signals in your surroundings.

- * Do not use two units with the same frequency at the same time in a place. (Separate them at least 120m.)
- * Do not open and repair it when some serious breakdown happens.
- * Please contact your local distributor or our company for repair.

7.SPECIFICATION

1.COMPREHENSIVE PERFORMANCE

CARRIER FREQUENCY:	UHF 690-865MHZ
FREQUENCY STABILIZATION:	< ±30ppm
DYNAMIC RANGE:	MORE THAN 90dB
TOTAL HARMONIC DISTORTION:	LESS THAN 0.5%
FREQUENCY RESPONSE:	40HZ-15KHZ ±3dB
AUDIO OUTPUT LEVEL:	UNBALANCED OUT: 0-- ±400mV BALANCED OUT: 0-- ±200mV

2.RECEIVER

POWER SUPPLY:	DC15V
CONSUME POWER:	5 WATER
SIGNAL/NOISE RATIO:	MORE THAN 90DB
IMAGE & SPURIOUS REJECTION:	MORE THAN 80db
BORDER UPON CHANNEL REJECTION:	MORE THAN 80db
RECEIVING SENSITIVITY:	LESS THAN 10dBu V(SINAD=30dB)
DE-EMPHASIS:	50us

- (1) Antenna Input Connector.
- (2) Power switch: When switch is turned on, LCD panel will light to indicate normal power status.
- (3) Channel selector.
- (4) LCD panel: it displays channel no., frequency.
- (5) Volume control.
- (6) Balanced Audio Output Jack.
- (7) Unbalanced Audio Output Jack.
- (8) DC 15V Input Jack: To connect 15V DC from the AC/DC adapter.

2. INSTALLATION OF THE RECEIVER

1.Install antenna in rear (1). Extend antenna to the fullest position.

2.Power Input Connection:

Connect input connector of AC/DC adapter to power source. Connect output connector to receiver rear panel DC input jack (8). Pay attention to the power source voltage.

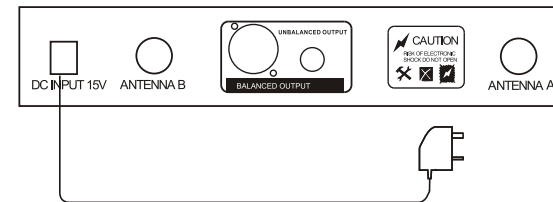


Fig.3

3.Audio Output Connection

- (a) Unbalanced Output: Use attached audio cable to connect one end to the unbalanced output jack (7) of the receiver. Connect the other end to the "LINE-IN" input jack of amplifier.
- (B) Balanced Output: Use "XLR" or "Cannon" type audio cable(not provided) to connect one end to the balanced output jack (8)of the receiver. Connect the other end to the "MIC IN" input jack of the mixer or amplifier.

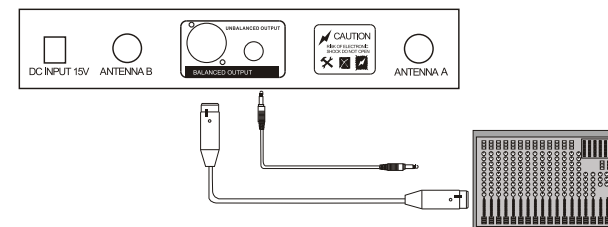


Fig.4

3.OPERATION OF THE RECEIVER

1. Pull out antenna A & B. Make them to be perpendicular with the machine.
2. Connect input connector of AC/DC adapter to power source. Connect output connector to receiver rear panel DC input jack (8).
- ◆ Make sure the power source voltage is same as marked voltage on the rear panel
3. Connect one end of attached audio cable to the unbalanced output jack(7) of the receiver. Connect the other end of the cable to "line in" input jack of amplifier.
4. Turn on power switch, LCD panel will light.
5. Press UP or down button to set the receiver frequency same as transmitter frequency.
6. Turn on transmitter power switch, "RF" indicator of the receiver will display. Volume of the receiver can be controlled by adjusting the volume knob.

Attention

When install receiver, locate the receiver at least 1 m above the ground and 1M beyond the wall. Antennas should be extended fully to get the the reception signal.

4. TRANSMITTER PARTS DESCRIPTION

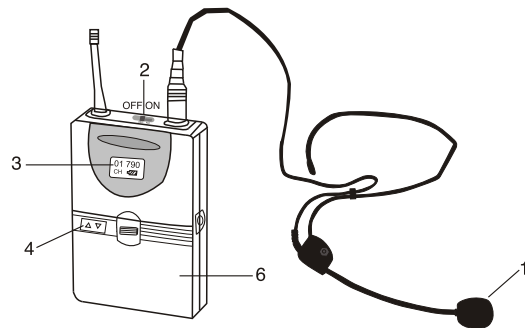


Fig. 5

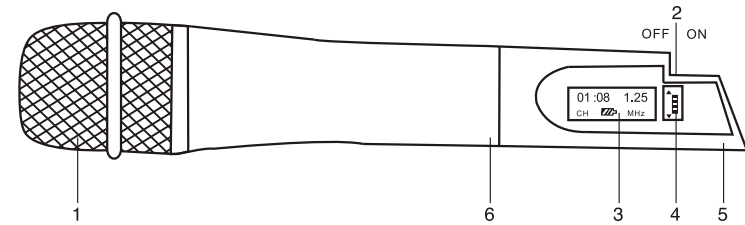


Fig. 6

1. MIC head: capsule inside.
2. Power switch
3. LCD Display: display channel no., Frequency and battery life.
4. Channel Selector
5. Colorful ring. It is for distinguishing different microphones.
6. Battery compartment.

5.OPERATION OF THE TRANSMITTER

1. Unscrew the battery compartment then put in a 9V battery.
Attention: The polarity should be right.
2. Turn on the transmitter. LCD panel will light. If LCD panel does not light, check the battery to see if the voltage is low or the battery is not installed correctly.
3. Press Up or Down to adjust frequency.