

# 2X16 CHANNEL UHF PROFESSIONAL WIRELESS MICROPHONE SYSTEM

Thank you.....

.....For buying professional wireless microphone series products. Really it is our great honor and we are really appreciate it. Thank you so much for your kindly support all the times. Before you use our products, please read this operation Manual, so that you can enjoy it.

## *operation manual*

### Wireless microphone's using knack

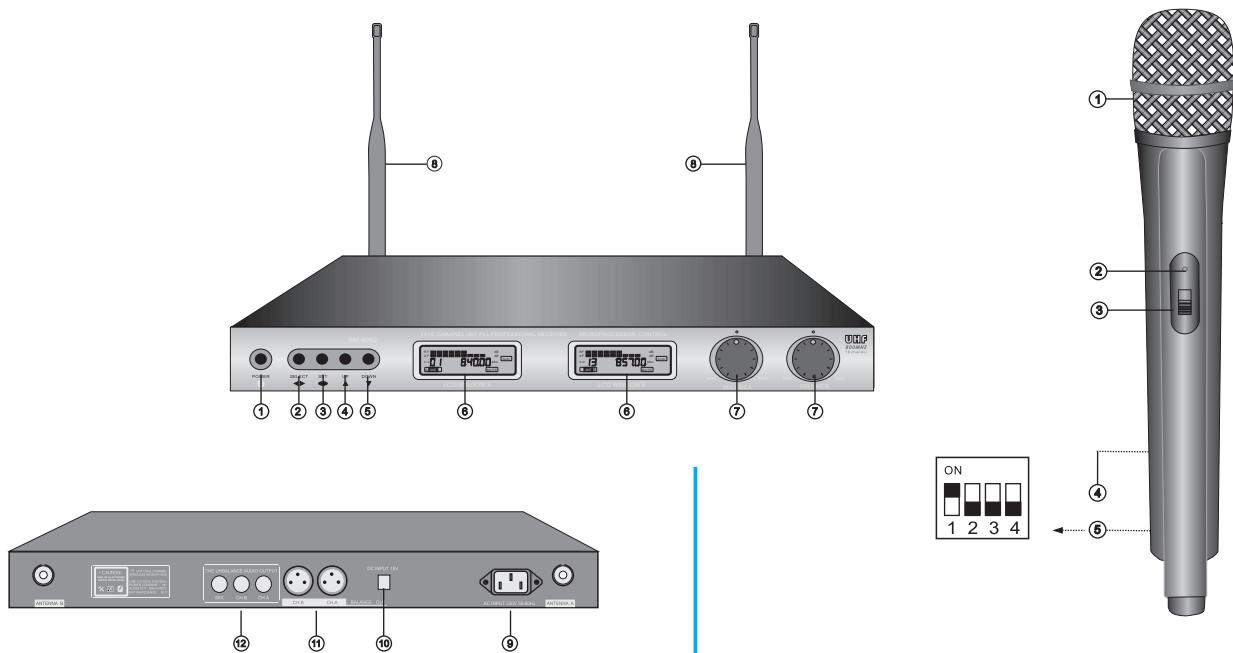
wireless microphone is the microphone which is not need the wire to connect, it has flexible moving space, it is the first choosing for the singer cause it collect the convenience speciality and flexible speciality together with its light and handy looking. UHF multilevel channel wireless microphone it is the new style product, it can settle question of interference available, that make it extend all over the world promptly, become the high class wireless microphones main fashion..

- Avoid make the receiver to closed the metal surface and wall such barrier, in this case it will knock-down the performance
- Pull out all the antenna of the receiver and make them be perpendicular with the receiver.
- Asit using cardioid directivity cartridge, so the its' distance must more less than 15 CM with the microphone, or it will affect the effect of the bass.
- Do not using more than two microphones together for one person, it will mix up the timbre.
- The best angle of the mouth and microphone make it 45 corner, it can make the air current crack least.

### MAIN FUNCTION

Using UHF863-863MHz band to avert interfering frequency. It has twin handhelds so it could for two persons using at the same time. Equipped with exquisite LCD panel, it can show the RF level, AF level, channel and frequency. Microprocessor control, that's easy to operation. PLL circuit, preset 16 differ frequencys, adjustable 560 free frequencys. Using the latest SAW filter of the RF, to avoid those interfering signal from band outside. Using twice mixer high-frequency circuit design, it has very high sensitivity about 3 uV. Multilevel quiet control circuit, to avoid interference signal from outside open the mute system. Special design companding circuit, strongly improve S/N ratio. Special voice compress-limiter design, it will not crack though the singer sang very loudly. Using excellent dynamic cardioid direct cartridge, the timbre bright and clear. Choose high quality component, accurate rational circuit design, reliability is enhance. Using SMT, print circuit board design tightness and credibility. High efficiency batteries consumption design, so the handheld could be in using for 20 hours continuously.(AAA batteries). Using high gain antenna, the space availability is more than 100 meters at the clearing. All ready output and input socket, it will be more convenience to connect every equipment. Exquisite streamline aspect, make holding more comfortable. It is suitable for stages and other high-class occasion

# 2X16 CHANNEL UHF PROFESSIONAL WIRELESS MICROPHONE SYSTEM



## CONTROL AND FUNCTION LIST

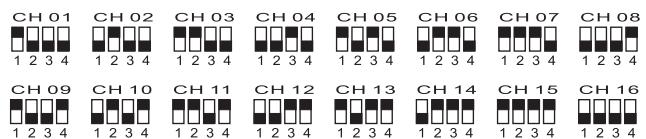
### (Receiver)

- 1.Power Switch
- 2.Channel A & B selector
- 3.Channel & Tune selector
- 4.Up set the frequency will step up
- 5.Down set the frequency will step down
- 6.LCD-A & LCD-B display
- 7.Volume-controlling knob
- 8.Antenna A & B
- 9.AC power input socket
- 10.DC power input socket
- 11.Balance output socket
- 12.Mix output socket

### (HANDHELD)

- 1.Grille the microphone module inside
- 2.A battery state indicator and power indicator  
Turn the power,indicator is flash.  
when the battery voltage is low,the indicator is long lighted, by that time should be change the battery as soon as possible.
- 3.Power switch
- 4.Battery Cover  
Open the cover can change the battery.
- 5.Channel select switch  
Must choose the same frequency as the receiver then it work.

## Channel select switch operation



## OPERATION OF THE LCD DISPLAY

- 1.Turn on the receiver,it will show "hello"
- 2.Then show work state



CH01:Show choosing the first channel,this machine has 16 different channels for choosing.

Press the up key or down key choosing the compatible channel.

840.00MHz: show now using the frequency is 790.00MHz the frequency of the receiver must as same as the transmitter's frequency then it can work.

Press the up key or down key to change the frequency

ANT Show the directional of the signal choosing.  
(channel A or channel B)

RF Show signal level

AF Show audio level direction

OPEN Show the operation directivity of the key,when LCD indication as "open"the function key only can control LCD-A,if you want to control LCD-B,then you must press"SELECT" and then open the"OPEN" of LCD-B.

MUTE Show now the machine is in mute state,when there's any voice from the handheld,the "MUTE"on the LCD will disappear.

AUTO Show now the receiver is stand by,when received the signal,"AUTO" will disappear.

# 2X16 CHANNEL UHF PROFESSIONAL WIRELESS MICROPHONE SYSTEM

3.Pressing "SET"tune selector ,come into the manual frequency select mode:



Pressing up or down function key to change its' fre quency,it can step up or step down 0.05MHz.

4.Turn off the receiver,show "bye-bye",and then the LCD gone out. When next time you turn on the machine,it will keep the frequency that last time you used itself.

## OPERATION OF THE RECEIVER

- 1.Pull out the antenna A & B,make them be perpendicular with the machine.
- 2.Power line connetion to the socket.
- 3.Connection of the audio output:  
one end of the audio cable into"UNBALANCE" or "BANLANCE" socket and the other end audio amplifier or mixer's "MIC IN"or "AUX IN"socket.
- 4.Turn on the power of the receiver and turn off the power of the microphone.
5. Press the button of the channel, choose a proper channel.

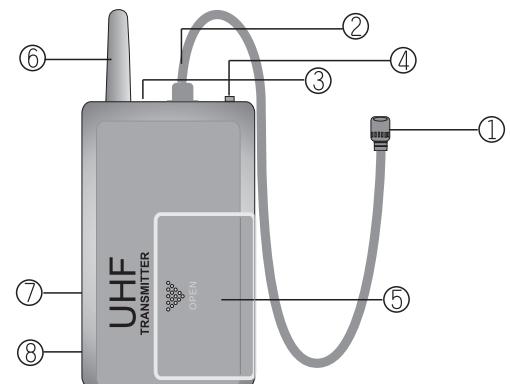
## OPERATION OF THE MICROPHONE

- 1.Open the battery box,then put in the battery of 1.5v with 2 pcs.  
Attention: The polarity should right.
- 2.Turn on the microphone,If the light does not twinkle or is always lighted, you should check the battery if the voltage is enough or the battery is well arranged.
- 3.Tune up the channel select switch,choosing the same channel with the re ceiver, it showing as the picture above.
- 4.Turn the mute switch to middle,the receiver will cut out audio output,to control the noise through the receiver.
- 5.If don't use the microphone for a long period,please pull the switch to the OFF posotion and take out the battery to avoid its deterioration and the damage of components.

## ATTENTION PROCEEDING

- 1.Please insert the battery with the correct polarity.
- 2.When the indicative lamp of the microphone become red or produce a noise,please replace the battery.
- 3.Don't throw fall,toss,cast the handing microphone when it is used, in case damage it seriously.
- 4.If the distance is too far,and produce a noise,this express it is out of the service area,please return to the service area.
- 5.Please must take out the battery after using.
- 6.Avoid putting the main machine in a blind angle,when it is used.  
This is for keeping signal-receiveing in good condition.
- 7.Please keep the machine from direct sunshine or rains,and put it in a place as far as possible from the magnetic field.
- 8.Don't open it yourself,because there is high voltage in it.
- 9.The power of this unit is only available to the standard on label listed, please confirm whether is can use in the voltage range in your zone.
- 10.In general,needn't regulate the channel unless cause the following cases:
  - A:If the microphone interfere other sets or public facilities, such as the television, airport communication,please convert the channnel to avoid the interference.
  - B:When use many sets at the same time,please let the same side microphone in the different channel to avoid the interfeference, and can use 16 sets at the most.

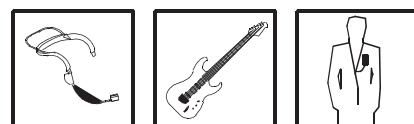
## BODY-PACK TRANSMITTER(ACCESSORIES)



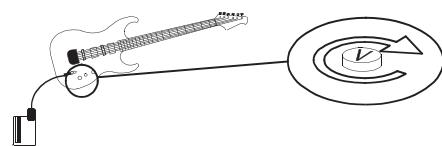
## CONTROL AND FUNCTION LIST

1. MICROPHONE
2. INPUT SOCKET
3. POWER LAMP
4. POWER SWITCH
5. BATTERY COMPARTMENT
6. ANTENNA
7. CHANNEL SELECT SWITCH
8. ADJUSTABLE GAIN CONTROLS

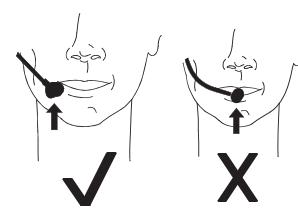
## INSTRUMENT ADAPTER CABLE FOR



1. HEADSET 2. GUITAR 3. LAVALIER



INSTRUMENT ADAPTER CABLE FOR GUITAR



HEADSET GRID MEANS

# 2X16 CHANNEL UHF PROFESSIONAL WIRELESS MICROPHONE SYSTEM

## SPECIFICATION

### 1.COMPREHENSIVE PERFORMANCE

CARRIER FREQUENCY: UHF863-865 MHz  
FREQUENCY STABILIZATION <± 10ppm  
DYNAMIC RANGE: > 90dB  
TOTAL HARMONIC DISTORTION: < 0.5%  
FREQUENCY RESPONSE: 40HZ~15KHZ±3dB  
AUDIO OUTPUT LEVEL: SEPARATE TYPE:0--±400mV  
MIX TYPE: 0--±200mV

### 2.FIXED RECEIVER

POWER SUPPLY: DC15V  
CONSUME POWER: 3WATER  
SIGNAL/NOISE RATIO: > 90DB  
IMAGE & SPURIOUS REJECTION: > 80db  
BORDER UPON CHANNEL REJECTION:> 80db  
RECEIVING SENSITVITY: 10dBu(SINAD=20dB)  
DE-EMPHASIS: 50uS

### 3.HANDING MICROPHONE

TRANSMITTER POWER: 2mW  
MODULATION TYPE : FM,F3F  
MAX DEVIATION: ±25Khz  
SPURIOUS EMISSION: >60dB  
BATTERY VOLTAGE: 3V  
CONTINOUS USING: 6 hours

## SYSTEM COMPOSITION

- 1.receiver.....x1
- 2.handheld microphones...x2
- 3.antenna .....x2
- 4.audio cable.....x1
- 5.power adapter.....x1  
(or power cable.....x1)
- 6.battery(1.5v).....x4
- 7.rack mount kit .....x2
- 8.operation manual.....x1

**UHF800MHz  
LCD Display  
16 Preset channels  
True diversity  
UHF PLL circuit**