

### **FCC Caution.**

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.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

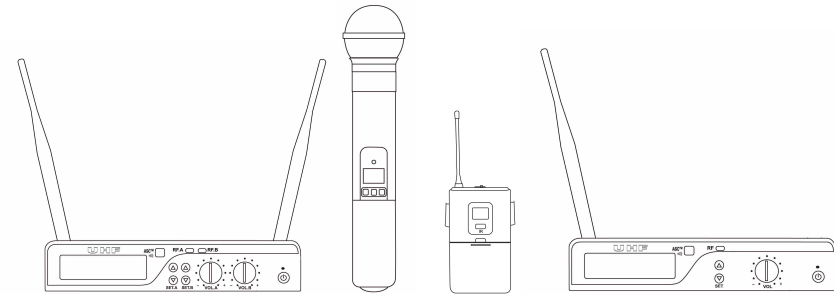
**Note:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can 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.

\* RF warning for Portable device:

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

# **User's Manu for UHF wireless microphone**



**U-6298**

**U-6198**



When you want to set-up a new frequency, please do use the AUTO Searching function by pressing Set-Up key in 1 seconds of the receiver to search the best frequency around you, and then press the Set-Down key for 1 seconds and put the transmitter IR close to the Receiver IR window, to match the receiver and transmitter in same frequency.

Don' t just press the Set-UP or DOWN key to change a new frequency simply.

▲2\*100 Channels

1\*100 channels

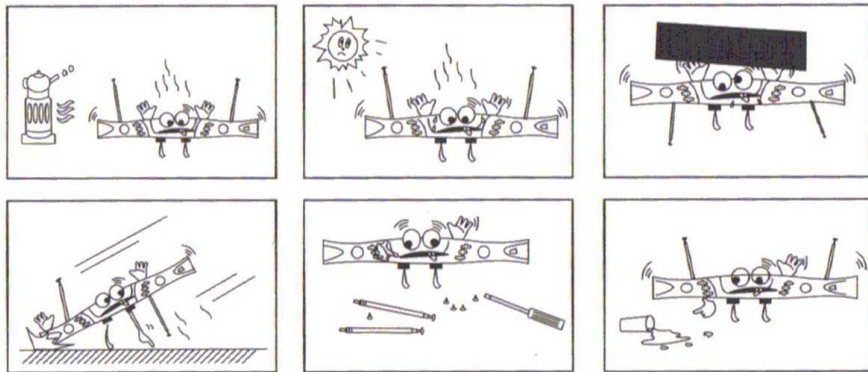
▲Auto channel searching, infrared channel matching

▲microphone (transmitter) can be worked with anyone of this receiver

# Preview

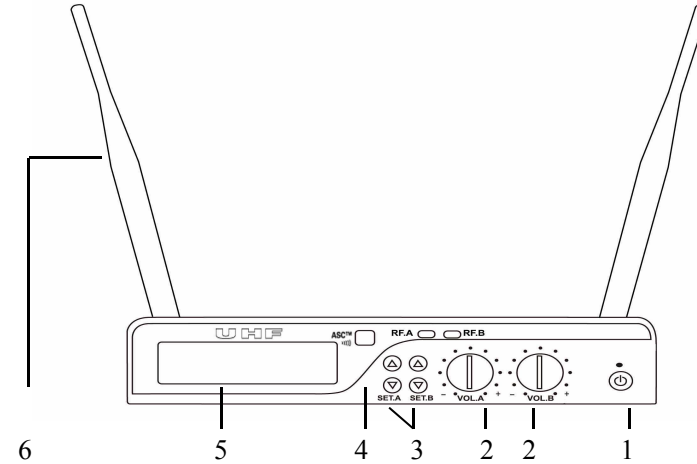
Welcome to choose this UHF wireless microphone system. This UHF wireless microphone system is professionally designed and manufactured with:

- Perfect sound quality
- The improved DPLL receiving mode with multi-channels
- UHF frequency, 2\*100 channels to avoid interference.
- 100 frequencies in each Microphone makes more stable operating , more reliable transmitting.
- Auto-channel-searching and locking makes the operating easily.
- Infrared-channel-matching makes the operating of matching the receiver and transmitter in same frequency easily.

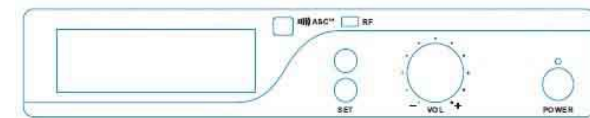


**Don't operate the system under the following situation, for any repairing, only professional technicians are allowed to avoid danger.**

## Receiver Operating-----Receiver Front Panel

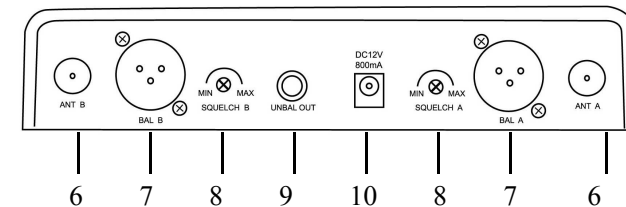


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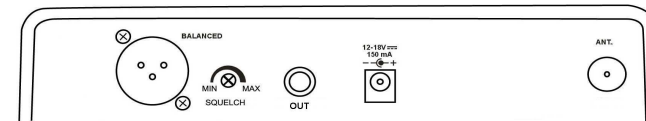


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## Receiver Rear Panel



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1. Power On/Off
2. Volume
3. Set-A and Set-B

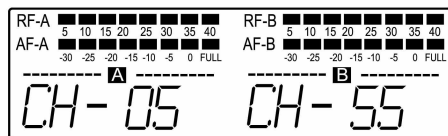
Searching Best Frequency: Press “SET--▲” key for 1 second to search the best operating channel (frequency)

Auto Matching: Press “SET--▼-” key for 1 second, put the transmitter ASC aim to the receiver ASC window, transmit the channel index to transmitter, it may automatically matching the channel between receiver and transmitter.

press “▲” or “▼” in 3 second to change the selected channel, press “SET--▼” key for 1 second again to match the transmitter (we don't prefer to change the channel in this way)

4. ASC window
5. LCD display: Channel number, RF level, AF level, Mute, Frequency
6. Antenna
7. Audio balanced output
8. Squelch and noise mute adjusting button. Adjusting range is 0-40dB.
9. Audio Unbalanced output
10. Power Jack: connecting a 12v DC 50/60Hz adaptor for power.

## LCD of receiver



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1. 8-level RF display: to display the RF level
2. 8-level AF display: to display the AF level
3. Frequency display: when FREQ lighting, the last 6 figure means the working frequency.
4. Channel Display: when CHAN lighting, it display the working channel.
5. Channel or Frequency display. It shows the working channel or frequency.
6. MUTE display: MUTE lighting means the system hasn't receive the RF signal.

## Receiver Operating

1. Turn Off the transmitter, Turn the Volume to “low”.
2. Turn on the receiver, check the RF and AF level, if interference too large, change the channel to avoid any interference .
3. Turn on the transmitter, the working RF-level display lighting, turn the volume to suitable level, then speak, the AF-level display working according to your voice.
4. Take off the power switch when finish using.

## Auto searching Channel

### 1. Set-up the left Channel (Set.A)

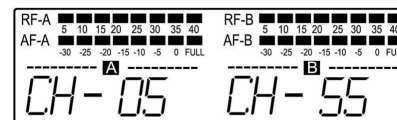
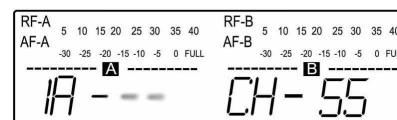
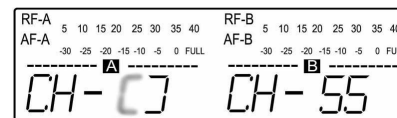
Press “SET--▲” key for 1 second, the display shows the system is automatically searching the best workable frequency (channel). (Picture 1).

### Infrared matching channel

Put the transmitter's ASC sensor close to the receiver's ASC sensor, press “SET--▼” key for 1 seconds, it will automatically transmit the channel index to the transmitter (microphone)----(Picture 2)

After the 1<sup>st</sup> and 2<sup>nd</sup> steps finished, the handheld microphone (transmitter) LED light, means working.

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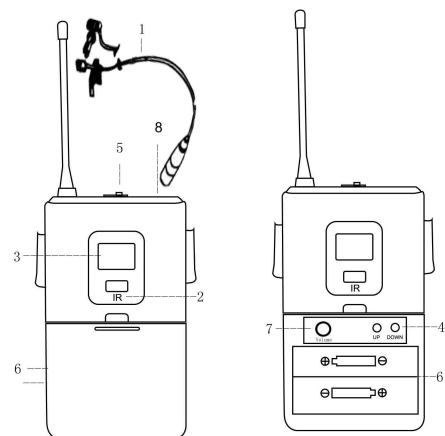
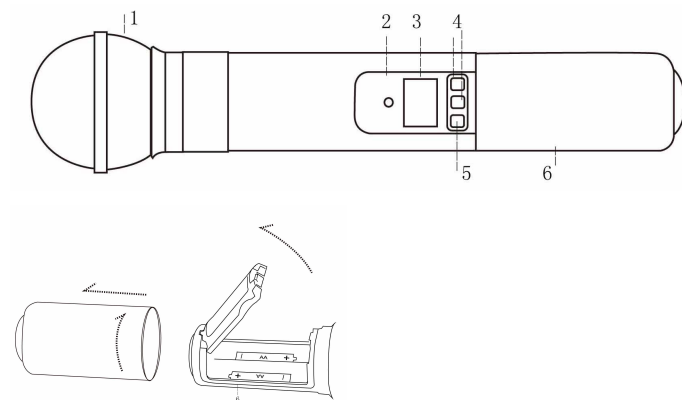
### 2. Set-up the right channel (Set.B)

Set-up the right channel (Set.B) in same steps.

When the microphone and receiver shows same channels, the system is workable.(Pic. 3)

Remarks: press “▲” or “▼” in 3 seconds to change the working channel. (we don't prefer to change the channel in this way)

## Function of Handheld Transmitter(Microphone in Metal body)



1. Microphone head
2. ASC sensor
3. LCD display
4. Up/Down key, for changing channel or frequency
5. Handheld mic—Power ON/OFF switch—press it for 5 seconds  
Mute—Press it for 3 seconds
- Bodypack Transmitter: ON—MUTE—OFF
6. Battery case: 2pcs of 1.5v AA batteries.
7. Gain
8. Microphone Input Jack

## LCD display of transmitter (Microphone)

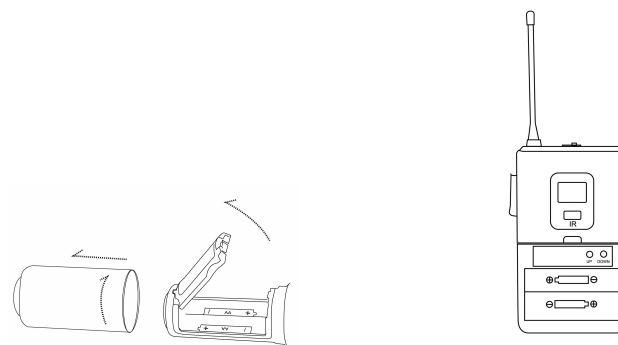


1. Frequency : indicate the working frequency
2. Channel: indicate the working channel
3. Low battery display: indicate the battery state.

### Operating of the handheld transmitter (Microphone)

1. Turn on the transmitter, the LCD display will show the frequency, channel, battery state.
2. If the display show different frequency (channel) with receiver, take the microphone “ASC sensor” close to the receiver “ASC” window, press the receiver “SET-- ▼” key for 1 second, check again the receiver and microphone are in same frequency (channel), the RF light on the front panel of receiver lights, then the system is workable.

### BATTERY



1. Screw out the battery case cover, push it out.
2. Put in 2 new 1.5v AA (NO.5) batteries, please make sure the batteries in right direction.
3. Push the cover in and make it tighten.  
⚠ Take off the batteries if not using for long time, the waist batteries must be take to Recycling Box.



# Technical Index

## System

Carrier Frequency Range: 480-529.75MHz  
 Mode: FM (wide band)  
 Channels:100 channels \* 2  
 Channel distance: 1MHz  
 Stability: +/- 0.005%  
 Dynamic Range: 100dB  
 Max deviation: +/-45KHz with level limiting  
 Frequency Response: 60Hz-18KHz (+/-3dB)  
 S/N ratio: >98dB  
 T.H.D.: <0.5%  
 Operating Range: 80m (under typical conditions)  
 Ambient Temperature: -10°C~+50°C

## Receiver

Receiving Mode: DPLL  
 M Frequency: 110MHz, 10.7MHz  
 Antenna input: BNC/50Ω  
 Sensitivity: 7dBuV (90dB S/N)  
 Sensitivity Adjusting Range: 12-32dBuV  
 Noise Rejection: >75dB  
 Max output Level: +400mVp

## Handheld Transmitter

RF Output power: +8dBm (6.3mW typical)/50Ω  
 Harmonic/Spurious emission: -50dBc normal  
 Input Impedance: 10kΩ  
 Controls: Power OFF/ON, MUTE  
 LCD/LED Display: Channel/Frequency, BATT status, Mute LED  
 Antenna Type: Integral  
 Battery Type: 2 x AA alkaline or NiMH  
 Battery life: 8-10 hours typical, alkaline  
 Dimensions: 9.5" L x 1.5" D (24.1cm x 5.1cm)  
 Weight (w/o batteries): 10.4 oz (323.5g)  
 Housing Construction: ABS Plastic

## Body-pack Transmitter

RF Output power: +8dBm (6.3mW typical) /50Ω  
 Harmonic/Spurious emission: -50dBc normal  
 Input Impedance: 5kΩ (Lavalier); 500kΩ (Instrument)  
 Controls: Power OFF/ON, MUTE  
 Input Connector: locking 3.5mm mini-jack  
 LCD/LED Display: Channel/Frequency, BATT status, Mute LED  
 Antenna Type: External attached  
 Battery Type: 2 x AA alkaline or NiMH  
 Battery life: 8-10 Hours typical, alkaline  
 Dimensions: 2.5" W x 0.75" H x 4.2" D (6.35cm x 1.9cm x 10.7cm)  
 Weight (w/o batteries): 2.6 oz (80.87g)  
 Housing Construction: ABS Plastic

FREQUENCY CHART

CHA				CH B			
CH 000	480.00	CH 050	492.80	CH 000	508.00	CH 050	517.80
CH 001	480.25	CH 051	492.75	CH 001	508.25	CH 051	517.75
CH 002	480.50	CH 052	493.00	CH 002	508.50	CH 052	518.00
CH 003	480.75	CH 053	493.25	CH 003	508.75	CH 053	518.25
CH 004	481.00	CH 054	493.50	CH 004	509.00	CH 054	518.50
CH 005	481.25	CH 055	493.75	CH 005	509.25	CH 055	518.75
CH 006	481.50	CH 056	494.00	CH 006	509.50	CH 056	519.00
CH 007	481.75	CH 057	494.25	CH 007	509.75	CH 057	519.25
CH 008	482.00	CH 058	494.50	CH 008	510.00	CH 058	519.50
CH 009	482.25	CH 059	494.75	CH 009	510.25	CH 059	519.75
CH 010	482.50	CH 060	495.00	CH 010	510.50	CH 060	520.00
CH 011	482.75	CH 061	495.25	CH 011	510.75	CH 061	520.25
CH 012	483.00	CH 062	495.50	CH 012	511.00	CH 062	520.50
CH 013	483.25	CH 063	495.75	CH 013	511.25	CH 063	520.75
CH 014	483.50	CH 064	496.00	CH 014	511.50	CH 064	521.00
CH 015	483.75	CH 065	496.25	CH 015	511.75	CH 065	521.25
CH 016	484.00	CH 066	496.50	CH 016	512.00	CH 066	521.50
CH 017	484.25	CH 067	496.75	CH 017	512.25	CH 067	521.75
CH 018	484.50	CH 068	497.00	CH 018	512.50	CH 068	522.00
CH 019	484.75	CH 069	497.25	CH 019	512.75	CH 069	522.25
CH 020	485.00	CH 070	497.50	CH 020	513.00	CH 070	522.50
CH 021	485.25	CH 071	497.75	CH 021	513.25	CH 071	522.75
CH 022	485.50	CH 072	498.00	CH 022	513.50	CH 072	523.00
CH 023	485.75	CH 073	498.25	CH 023	513.75	CH 073	523.25
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CH 026	486.50	CH 076	499.00	CH 026	514.50	CH 076	524.00
CH 027	486.75	CH 077	499.25	CH 027	514.75	CH 077	524.25
CH 028	487.00	CH 078	499.50	CH 028	515.00	CH 078	524.50
CH 029	487.25	CH 079	499.75	CH 029	515.25	CH 079	524.75
CH 030	487.50	CH 080	500.00	CH 030	515.50	CH 080	525.00
CH 031	487.75	CH 081	500.25	CH 031	515.75	CH 081	525.25
CH 032	488.00	CH 082	500.50	CH 032	516.00	CH 082	525.50
CH 033	488.25	CH 083	500.75	CH 033	516.25	CH 083	525.75
CH 034	488.50	CH 084	501.00	CH 034	516.50	CH 084	526.00
CH 035	488.75	CH 085	501.25	CH 035	516.75	CH 085	526.25
CH 036	489.00	CH 086	501.50	CH 036	517.00	CH 086	526.50
CH 037	489.25	CH 087	501.75	CH 037	517.25	CH 087	526.75
CH 038	489.50	CH 088	502.00	CH 038	517.50	CH 088	527.00
CH 039	489.75	CH 089	502.25	CH 039	517.75	CH 089	527.25
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CH 041	490.25	CH 091	502.75	CH 041	518.25	CH 091	527.75
CH 042	490.50	CH 092	503.00	CH 042	518.50	CH 092	528.00
CH 043	490.75	CH 093	503.25	CH 043	518.75	CH 093	528.25
CH 044	491.00	CH 094	503.50	CH 044	519.00	CH 094	528.50
CH 045	491.25	CH 095	503.75	CH 045	519.25	CH 095	528.75
CH 046	491.50	CH 096	504.00	CH 046	519.50	CH 096	529.00
CH 047	491.75	CH 097	504.25	CH 047	519.75	CH 097	529.25
CH 048	492.00	CH 098	504.50	CH 048	520.00	CH 098	529.50
CH 049	492.25	CH 099	504.75	CH 049	520.25	CH 099	529.75