

## 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.

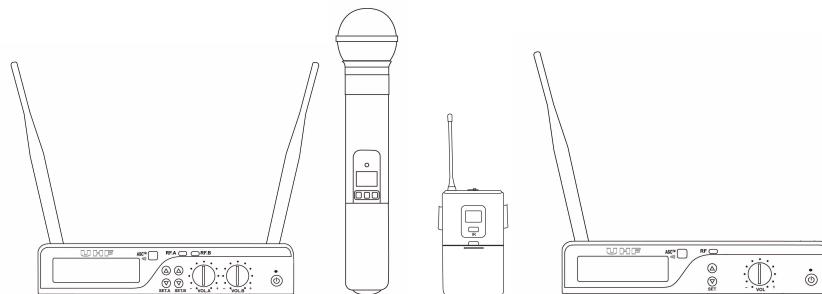
\* RF warning for Portable device:

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

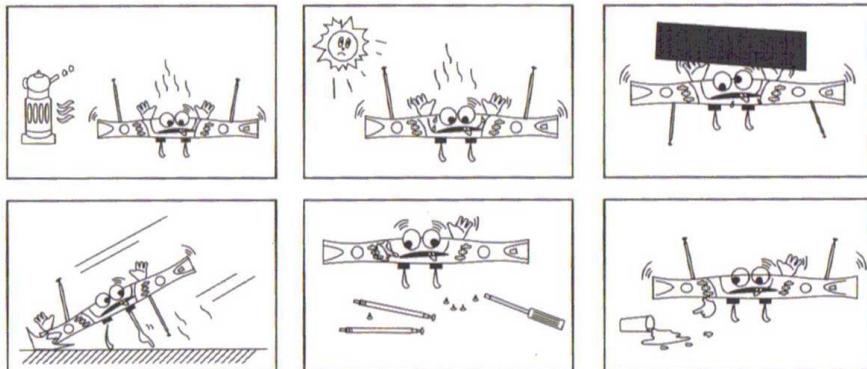
▲ Auto channel searching, infrared channel matching

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

# Preview

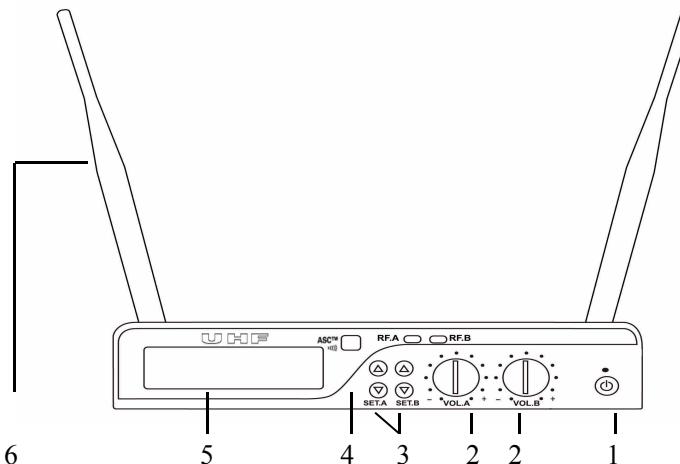
Welcome to choose this UHF wireless microphone system. This UHF wireless microphone system is professionally designed and manufactured with:

- 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.

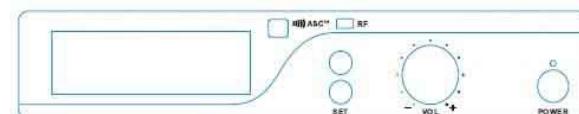


Don't operate the system under the following situation, for any repairing, only professional technicians are allowed to avoid danger.

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

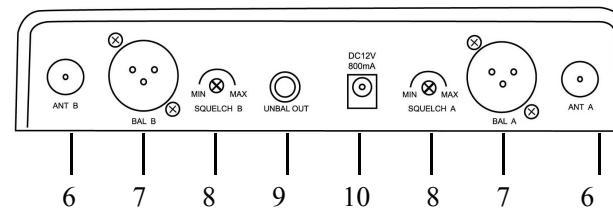


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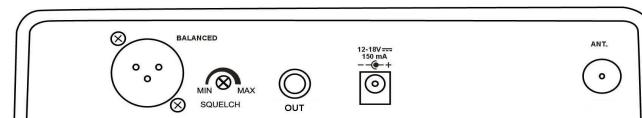


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## Receiver Rear Panel



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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

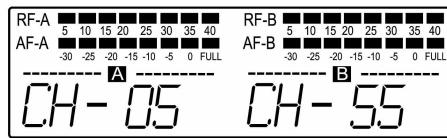
7. Audio balanced output

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.



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## Auto searching Channel

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

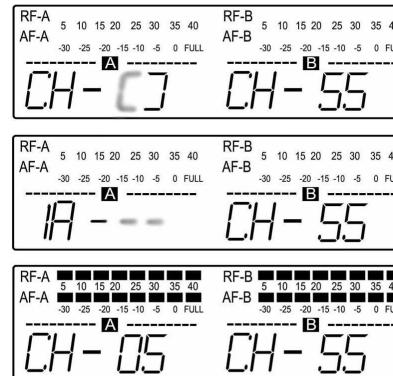
Press “SET-- ▲” key for 1 second, the display shows the system is automatically searching the best workable frequency (channel). (Picture 1).

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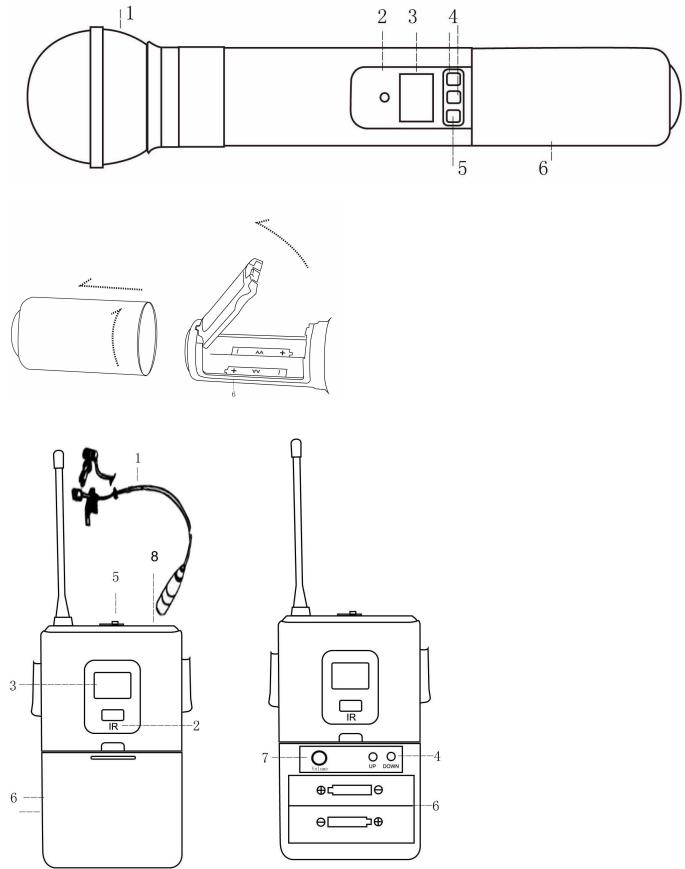
### 2. Set-up the right channel (Set.B)

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
6. Bodypack Transmitter: ON—MUTE—OFF
7. Battery case: 2pcs of 1.5v AA batteries.
8. Gain
8. Microphone Input Jack

## LCD display of transmitter (Microphone)

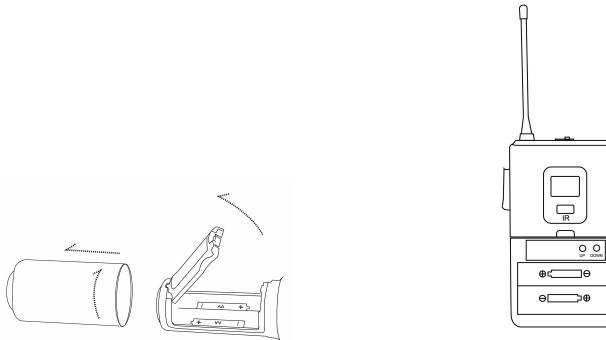


1. Frequency : indicate the working frequency
2. Channel: indicate the working channel
3. Low battery display: indicate the battery state.

## 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 (N0.5) 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

CH A				CH B			
CHL 000	480.00	CHL 060	492.60	CHL 000	505.00	CHL 060	517.60
CHL 001	480.25	CHL 061	492.75	CHL 001	505.25	CHL 061	517.75
CHL 002	480.50	CHL 062	493.00	CHL 002	505.50	CHL 062	518.00
CHL 003	480.75	CHL 063	493.25	CHL 003	505.75	CHL 063	518.25
CHL 004	481.00	CHL 064	493.50	CHL 004	506.00	CHL 064	518.50
CHL 005	481.25	CHL 065	493.75	CHL 005	506.25	CHL 065	518.75
CHL 006	481.50	CHL 066	494.00	CHL 006	506.50	CHL 066	519.00
CHL 007	481.75	CHL 067	494.25	CHL 007	506.75	CHL 067	519.25
CHL 008	482.00	CHL 068	494.50	CHL 008	507.00	CHL 068	519.50
CHL 009	482.25	CHL 069	494.75	CHL 009	507.25	CHL 069	519.75
CHL 010	482.50	CHL 070	495.00	CHL 010	507.50	CHL 070	520.00
CHL 011	482.75	CHL 071	495.25	CHL 011	507.75	CHL 071	520.25
CHL 012	483.00	CHL 072	495.50	CHL 012	508.00	CHL 072	520.50
CHL 013	483.25	CHL 073	495.75	CHL 013	508.25	CHL 073	520.75
CHL 014	483.50	CHL 074	496.00	CHL 014	508.50	CHL 074	521.00
CHL 015	483.75	CHL 075	496.25	CHL 015	508.75	CHL 075	521.25
CHL 016	484.00	CHL 076	496.50	CHL 016	509.00	CHL 076	521.50
CHL 017	484.25	CHL 077	496.75	CHL 017	509.25	CHL 077	521.75
CHL 018	484.50	CHL 078	497.00	CHL 018	509.50	CHL 078	522.00
CHL 019	484.75	CHL 079	497.25	CHL 019	509.75	CHL 079	522.25
CHL 020	485.00	CHL 080	497.50	CHL 020	510.00	CHL 080	522.50
CHL 021	485.25	CHL 081	497.75	CHL 021	510.25	CHL 081	522.75
CHL 022	485.50	CHL 082	498.00	CHL 022	510.50	CHL 082	523.00
CHL 023	485.75	CHL 083	498.25	CHL 023	510.75	CHL 083	523.25
CHL 024	486.00	CHL 084	498.50	CHL 024	511.00	CHL 084	523.50
CHL 025	486.25	CHL 085	498.75	CHL 025	511.25	CHL 085	523.75
CHL 026	486.50	CHL 086	499.00	CHL 026	511.50	CHL 086	524.00
CHL 027	486.75	CHL 087	499.25	CHL 027	511.75	CHL 087	524.25
CHL 028	487.00	CHL 088	499.50	CHL 028	512.00	CHL 088	524.50
CHL 029	487.25	CHL 089	499.75	CHL 029	512.25	CHL 089	524.75
CHL 030	487.50	CHL 090	500.00	CHL 030	512.50	CHL 090	525.00
CHL 031	487.75	CHL 091	500.25	CHL 031	512.75	CHL 091	525.25
CHL 032	488.00	CHL 092	500.50	CHL 032	513.00	CHL 092	525.50
CHL 033	488.25	CHL 093	500.75	CHL 033	513.25	CHL 093	525.75
CHL 034	488.50	CHL 094	501.00	CHL 034	513.50	CHL 094	526.00
CHL 035	488.75	CHL 095	501.25	CHL 035	513.75	CHL 095	526.25
CHL 036	489.00	CHL 096	501.50	CHL 036	514.00	CHL 096	526.50
CHL 037	489.25	CHL 097	501.75	CHL 037	514.25	CHL 097	526.75
CHL 038	489.50	CHL 098	502.00	CHL 038	514.50	CHL 098	527.00
CHL 039	489.75	CHL 099	502.25	CHL 039	514.75	CHL 099	527.25
CHL 040	490.00	CHL 090	502.50	CHL 040	515.00	CHL 090	527.50
CHL 041	490.25	CHL 091	502.75	CHL 041	515.25	CHL 091	527.75
CHL 042	490.50	CHL 092	503.00	CHL 042	515.50	CHL 092	528.00
CHL 043	490.75	CHL 093	503.25	CHL 043	515.75	CHL 093	528.25
CHL 044	491.00	CHL 094	503.50	CHL 044	516.00	CHL 094	528.50
CHL 045	491.25	CHL 095	503.75	CHL 045	516.25	CHL 095	528.75
CHL 046	491.50	CHL 096	504.00	CHL 046	516.50	CHL 096	529.00
CHL 047	491.75	CHL 097	504.25	CHL 047	516.75	CHL 097	529.25
CHL 048	492.00	CHL 098	504.50	CHL 048	517.00	CHL 098	529.50
CHL 049	492.25	CHL 099	504.75	CHL 049	517.25	CHL 099	529.75