

UHF

## OPERATION SPECIFICATION

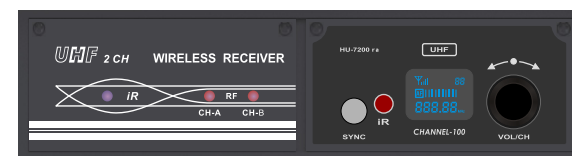
### WIRELESS MICROPHONE



HUM-1700



HUM-1600T



HU-7200RA

User Instructions

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.

The Grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. such modifications could void the user's authority to operate the equipment.

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.

The device has been evaluated to meet general RF exposure requirement. This equipment complies with FCC's RF radiation exposure limits set forth for an uncontrolled environment. This device and its antenna(s) must not be co-located or conjunction with any other antenna or transmitter.

## Basic troubleshooting

| Problem                                     | Solution                                                                                                                                                   |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LCD of transmitter doesn't work             | Check the battery pole                                                                                                                                     |
|                                             | Change the battery power                                                                                                                                   |
|                                             | Check the battery clip rust or not                                                                                                                         |
| Can not turn on the receiver                | Make sure the power adaptor is connected correctly                                                                                                         |
|                                             | Make sure the power adaptor is available for local voltage                                                                                                 |
| No sound                                    | Make sure the transmitter and receiver are same frequency                                                                                                  |
|                                             | Make sure the transmitter and receiver are within the working distance                                                                                     |
| Noise comes out when the transmitter is off | Another wireless product in the area is on the same frequency or signals are mixing, change the frequency to clean one                                     |
|                                             | Receiver is too close to digital signal processor or similar device, move the receiver to different location                                               |
| Short range or drop outs                    | Move the obstacles or reposition the receiver/antennas                                                                                                     |
|                                             | Poorly oriented beltpack antenna, check the antenna connection and re-orient the bodypack so the antenna is vertical, and facing the receiver(if possible) |
|                                             | Squelch set too high, reset the squelch, higher settings means shorter distance                                                                            |

## Specification

| System                     |                                            |
|----------------------------|--------------------------------------------|
| Modulation                 | Wide band FM                               |
| Frequency response         | 530-580MHz                                 |
| Channels number            | 200 frequency interval 250KHz              |
| Frequency stability        | $\pm 0.005\%$                              |
| Dynamic range              | 100dB                                      |
| Max deviation range        | $\pm 48\text{KHz}$                         |
| Frequency response         | 50Hz-15KHz ( $\pm 3\text{dB}$ )            |
| SNR                        | 75dB                                       |
| Comprehensive distortion   | $\leq 0.3\%$                               |
| Adjacent channel rejection | $\geq 70\text{dB}$                         |
| Working distance           | 50 meters                                  |
| Receiver                   |                                            |
| Oscillation mode           | PLL                                        |
| Antenna input              | BNC/ (50 $\Omega$ )                        |
| Cascade output             | BNC/ (50 $\Omega$ ) , Gain: 0dBm $\pm$ 2dB |
| Intermediate frequency     | 110MHz , 10.7MHz                           |
| Sensitivity                | 12dBuV (80dBS/N)                           |
| Spurious suppression       | $\geq 75\text{dB}$                         |
| Max output level           | 10dBV                                      |
| Current                    | $\leq 500\text{mA}$                        |
| Transmitter                |                                            |
| RF output power            | 10mW                                       |
| Cartridge                  | Dynamic                                    |
| Spurious suppression       | -60dB                                      |
| Power supply               | 2*1.5V AA battery                          |
| Battery life               | 8 hours                                    |
| Working temperature        | -10°C+40°C                                 |

**Working Temperature:** Do not use the equipment in the temperature below -10°C or above 45°C, doing this may influence inner components & affect product performance.

If the device has been exposed to extreme temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation might damage your device. Leave the device switched off until it has reached room temperature.

**Ventilation:** To get the best ventilation, the minimum distance between equipment should be over 20cm. Please ensure that ventilations ports are not covered or blocked.

**Fire:** Ensure that the product is away from any fire sources.

**Water:** Ensure that the product is away from water splashing & is away from direct contact with water.

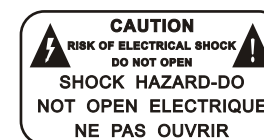
The voltage and frequency must be the same as stated on the device. Wrong voltages or power outlets can lead to damage of the device & fatal electrical shock. Please use the supplied power cord.

Make sure the power cord should be routed so that they do not get pinched &

Disconnect from power supply when the product is not being used for a long time. Always use a dry cloth to clean the product.

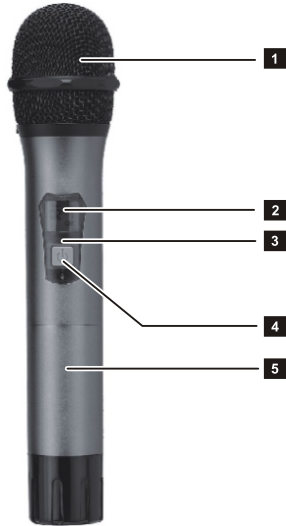
DO NOT drop the product, as it may cause the product to mal-function.

Do not open any of the components yourself, for repairs please get in touch with your dealer/distributor.



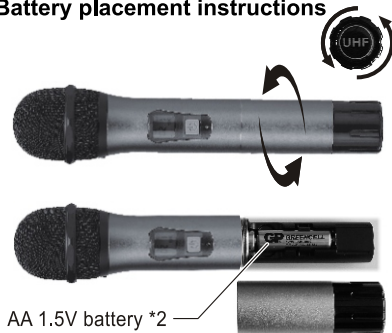
## Handheld microphone/ Waist-mounted transmitter and Battery installation

### Handheld microphone instructions



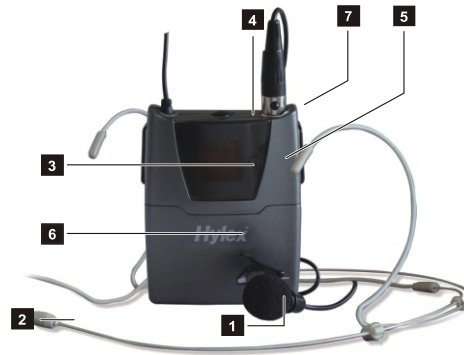
- 1.Net head(included Pick-up head).
- 2.LCD: showed the frequency, channel, battery power.
- 3.Infrared frequency window: with the receiver's comparison frequency key, the frequency data is transmitted to the receiver.
- 4.Power switch: press this button for one second to turn on the power, the LCD display lights up the information, press this button again for two seconds to turn off the power.
- 5.Handheld microphone body: placed the battery, transmitter board.

### Battery placement instructions



AA 1.5V battery \*2

### Waist-mounted transmitter description(Optional)



- 1.Lavalier microphone(included Pick-up head).
- 2.Headset microphone (included Pick-up head).
- 3.LCD: showed the frequency, channel, battery power.
- 4.Power switch: press this button for one second to turn on the power, the LCD display lights up the information, press this button again for two seconds to turn off the power.
- 5.Infrared frequency window: matches the receiver's comparison frequency button to transmit channel data to the receiver.
- 6.Battery Holder: placed the battery, transmitter board.
- 7.Lavalier microphone and headset microphone connector.

### Battery placement instructions

First press and hold **A** and then push down **B** to slide out the battery cover.

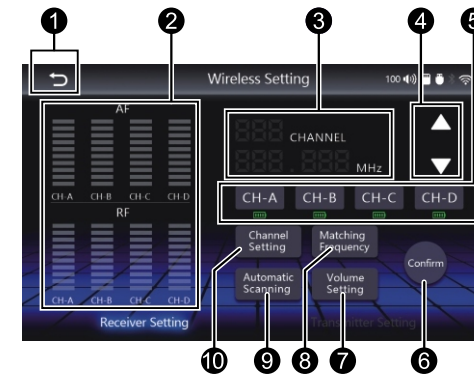
Note: Please pay attention to the polarity when installing the battery.



AA 1.5V battery \*2

## Chapter 1: Wireless Settings Click Home to enter the Wireless Settings screen.

### 1-1: Receive settings



### Receive setting function option description

- 1 Go back to the last page
- 2 AF: Audio signal receiving status indicator  
RF: RF signal receiving status indicator
- 3 CHANNEL: channel display; MHz: frequency display
- 4   Upper and lower touch channel selection
- 5 4(CH-A~D) wireless microphone selection setting; battery level indication
- 6 Touch to Confirm
- 7 Volume setting: Touch this area to jump to the volume setting page
- 8 Compare frequency: set wireless microphone and host synchronization link
- 9 Auto sweep: automatically select the clearest channel
- 10 Channel settings:  
Steps Click **5** → to select CH-A or other microphone, then click **4** to select the channel, then click **6** to confirm the setting.

### 1-1-a: Comparison frequency setting



### Steps:

- A) After setting the frequency of the touch panel, select CH-A or CH-B or CH-C or CH-D
- B) Turn on the power of the first wireless microphone transmitter, align the infrared receiving window with the infrared emission window of the receiver, and click the touch panel "Compare frequency" button. The transmitter frequency is the same as the receiver frequency. After the transmitter is set, the receiver automatically exits the infrared transmission state and the RF light is on (see above).
- C) Repeat steps A and B to synchronize the frequency of the other wireless microphones with CH-B or CH-C or CH-D.

### Note 1 Infrared sync frequency setting:

Keep the infrared sync sensor of the transmitter aiming at the receiver's infrared sync sensor within 15CM. Click the touch panel "Compare frequency" button, and the "Comparing frequency" flashing below the panel indicates that the frequency data is being transmitted, and the transmitter's LCD backlight is flashing. Light up, indicating that the frequency synchronization is complete.

### Note 2 The following signals indicate that the system is working properly.

- A) RF is the RF signal: the red light is on to indicate that there is a signal, and the touchpad will display the strong and weak lights.
- B) AF is an audio signal: when the wireless microphone has sound, the strong and weak lights will be displayed on the circuit board.

### Note 3 Instructions for using the wireless transmitter:

After using the wireless handheld microphone or the waist-mounted transmitter, please turn off the power. If it is not used for a long time, the battery should be removed to avoid leakage damage to the board.