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USER MANUAL

True Diversity UHF Wireless Microphone System



Thank you for choosing our products, please read the manual carefully before using.

System features

Long working range microphone, specially developed for fixed installation and use of school/gymnasium. The advantage is to only need a single machine installation, you can reach 500-1000 meters of use distance. Not applicable to multiple machines at the same time, it is recommended that no more than 2 sets can be used simultaneously.

Noted : If you need to connect the antenna amplifier, please consult the factory technician first to avoid the signal too strong to make the receiver produces self-excitation phenomenon, and there will be noise.

System technical index

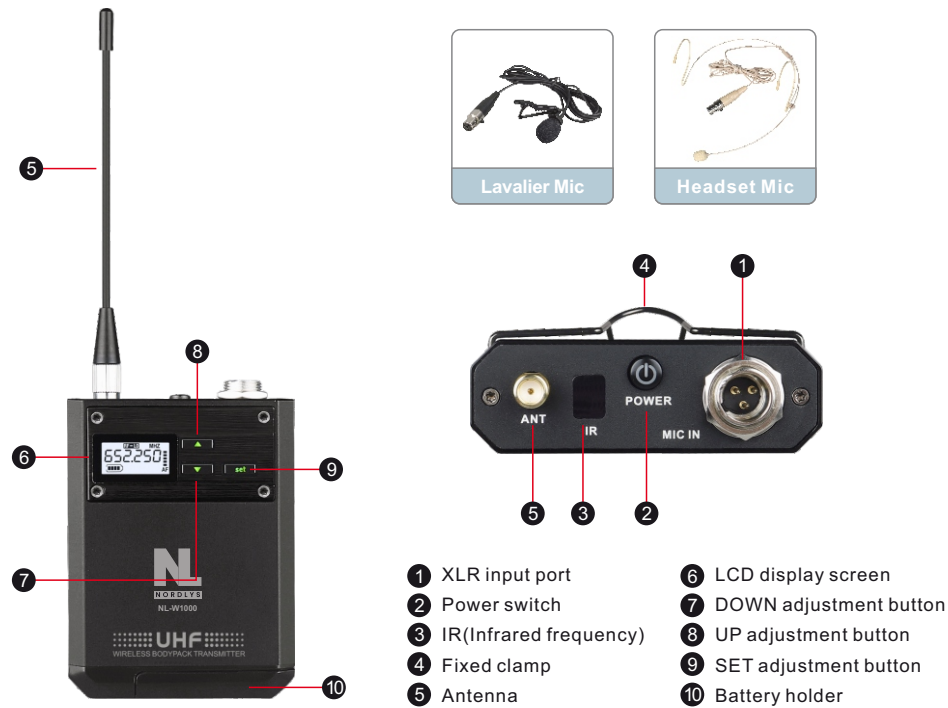
| | | |
|-----------------------------------|---|--|
| Transmitter: | Receiver: | |
| Material: Metal | Oscillation mode: PLL Synthesized | Maximum output voltage: 0dbV@45KHz |
| Oscillation mode: PLL Synthesized | Radio-frequency stability: $\pm 0.005\%$ (-10~50°C) | Output: XLR balance and 6.3mm unbalance |
| Frequency range: UHF640~673MHz | Carrier frequency: UHF MHz | Volume output adjustment: Potentiometer type |
| CHA: 640-648MHz | Band width: 16 MHz | Mute control mode: |
| CHB: 665-673MHz | Channel: 64 CH (In a 250 KHZ step by step) | Dual mute control of voice code and noise |
| Band width: 250MHz | Operating mode: manual | Mute adjustment: -65dB~-100dB |
| Frequency adjustable: | Receiving sensitivity: At offset is equal 25KHz | Electric SQ adjustable: |
| Automatic tracking receiver | Input: 100dBm, S/N > 80dB | Eight segments SQ adjustable |
| channel/manual adjustment | Maximum deviation: ± 48 KHz | (About 500 m ~1000 m distance adjustable) |
| Output power : 40mW | S/N: > 102Db | Power supplier: DC12~15V/450~1000mA |
| Harmonic radiation: < 55dBc | T.H.D: < 0.5%@1KHz | |
| Maximum deviation: ± 48 KHz | Frequency respond: 60Hz~15KHz | |
| Capsule: Dynamic | | |
| Battery: 1.5V AA*2 | | |
| Operating display: | | |
| LCD displays battery capacity, | | |
| channels | | |

Safety precautions

- △. For full ventilation, the minimum clearance around the equipment is 10cm;
- △. Ventilation holes should not be covered with articles such as newspapers, tablecloths, and curtains to impede ventilation;
- △. No exposed flame source, such as lighted candles, should be placed on the equipment;
- △. There should be no water drops or splashes on the equipment, and there should be no objects filled with liquid, such as vases, placed on the equipment;
- △. Do not let broken wire, iron powder, water, etc. into the case. Otherwise there is the danger of fire and malfunction.
- △. In the installation, removal and wiring of this machine, be sure to cut off the power supply. Otherwise there will be a risk of electric shock.
- △. Do not disassemble the machine. Otherwise, a failure will occur.
- △. Please use the machine in the range of service conditions (temperature, humidity, vibration, direction of installation, environment, etc.) specified in the specifications. Otherwise there is the danger of fire and malfunction.
- △. Please correctly wire the machine according to the standard wiring, specified power supply and construction method. Otherwise there will be electric shock, fire, fault risk.
- △. Terminals marked with a hazard warning sign "⚡" on the equipment are warnings of dangerous live life. External leads connected to these terminals need to be installed or used by a directed person with ready-made leads or flexible wires.



Body pack introduction



Transmitter IR frequency introduce



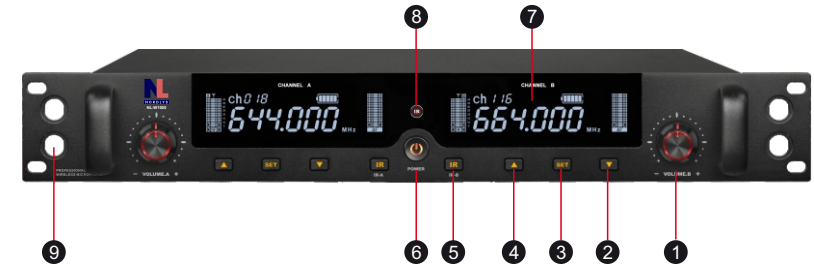
Step one: Turn on the power of receiver , press IR button on the receiver then IR indicator light on LCD screen and IR Window on receiver panel will twinkle.

Step two: Put the IR Window of hand microphone and receiver IR Window on a straight line, distance keep about 30cm is best.

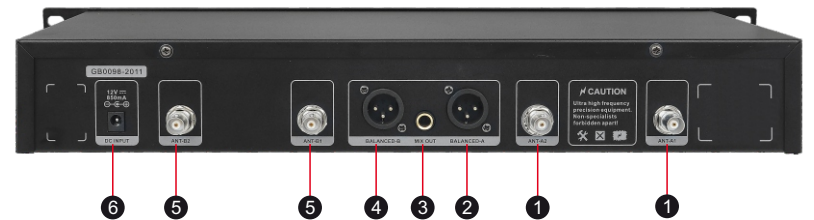
Step three: If IR operation is successful, the frequency of receiver and hand microphone will be same, then can begin to use.

(If IR operation is failed, please repeat the above steps)

Receiver Panel Introduce

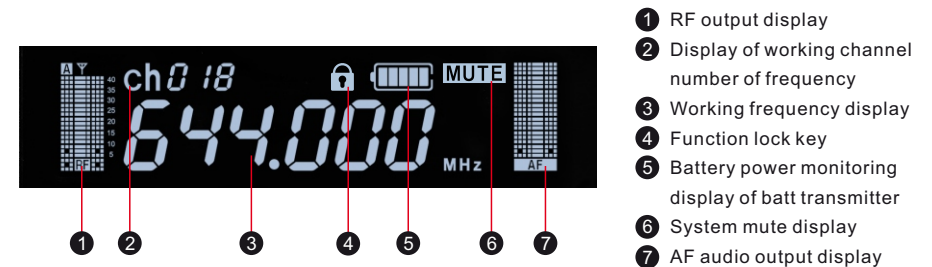


- 1 Volume control
- 2 Down key
- 3 Set key
- 4 Up key
- 5 IR key
- 6 Power switch
- 7 Display window
- 8 IR window
- 9 Front antenna hole



- 1 A-channel antenna a1-a2 interface
- 2 6.35 mixed output interface
- 3 B-channel antenna B1-B2 interface
- 4 A-channel balanced output interface
- 5 B-channel balanced output interface
- 6 DC power input interface

Receiver LCD Introduce



- 1 RF output display
- 2 Display of working channel number of frequency
- 3 Working frequency display
- 4 Function lock key
- 5 Battery power monitoring display of batt transmitter
- 6 System mute display
- 7 AF audio output display

Receiver System Menu Instrument



System menu 1: adjust frequency by hand

Press SET button one time, frequency number on LCD screen will twinkle, then press ▼ or ▲ button to change or adjust frequency. Total has 100 channels and bandwidth is 25MHz can be adjusted to use. When IR operation is finished, system will automatically lock after 3 seconds, then can begin to use transmitter for IR operation.



System menu 2: search frequency automatically

Press SET button twice, then press ▼ or ▲ button to search frequency. The system can automatically search the least disturbed frequency and lock it. This process is about 20 seconds then put the IR Window of transmitter and IR Window of receiver on a straight line to finish IR operation.



System menu 3: adjust receiving distance

Press SET button three times, LCD screen will come out SP-100, then press ▼ or ▲ button to adjust SP, from SP-65 to SP-100, and -100 is factory default, it is the optimal receiving distance which is about 1000 meters, suitable for outdoor use. And SP-65 is about 300 meters, suitable for indoor environment.



System menu 4: system lock button

Press SET button four times, LCD screen will come out "LOK OFF" or "LOK ON", press ▲ is LOCK, press ▼ is unlock. When the system is LOCK, there will be a key on the bottom right corner. When the system is on LOCK, all function can't use, but won't effects the transmitter which is on using. If need unlock, please press the SET button four times then enter into system menu to adjust.

The frequency distribution document is as follows:

System working frequency left : 640-648MHz , band width 8MHz ,250KHz stepping , totall 32CH
System working frequency right : 665-673MHz , band width 8MHz ,250KHz stepping , totall 32CH
Total 64 working frequency for this system , working frequency band width is 16MHz

Handheld microphone introduce



How to disassemble battery compartment



Step 1 : Press the ring which below the battery cap



Step 2 : Turn the ring left



Step 3: Press the battery cap and push it up



When the battery power of the microphone is low, the display screen will show as the picture, flashing constantly, reminding that the battery needs to be replaced.