



DT220 TECH is iweex®'s label of the 4th generation Digital UHF Wireless Technology. Learn more from official website.



聆听世间美妙声音

Listen to the Beautiful Sounds from the World



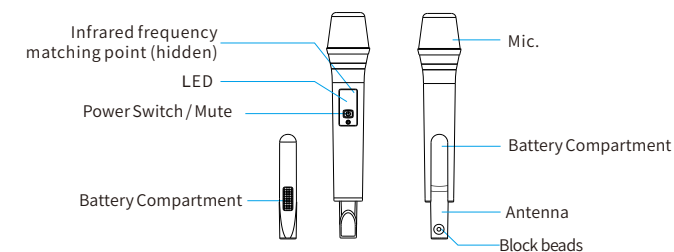
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Feature

- Digital audio system. Anti -interference, anti -string disturbances, high -fidelity, high signal -to -noise ratio, and wireless transmission distance.
- The performance of multi-channels working is excellent. Digital UHF technology, effective wireless transmission distance can reach 80 meters, effectively avoid interference interference.
- 500Mhz and 600Mhz frequency bands.
- Use the "Hybrid Power Supply" patent technology to use a 3.7V 14500 lithium battery or 1.5V AAA battery.
- A variety of receivers can be matched, including single -channel receiving machines, two -channel receiver, four -channel receiver.
- Wireless 20 ~ 20kHz full audio band, frequency response deviation <2DB, close to non -destructive transmission, phase deviations are -30 ° ~ + 60 °.

Appearance



Note: There may be differences between different versions, but they do not affect product operation.

Instructions

1. Main Interface



2. Wireless Channel Management Logic

This device follows the "Group - Channel - Frequency" logic.

Group: The system has 5 channel groups, and of 12 channels for each group.

CH (wireless channel): Each channel is bound to a wireless frequency point, and the wireless frequency points under the same group are recommended , which can avoid "intermodulation interference" effectively .

Frequency: can only be changed by selecting a different CH (except for Group 5).

Group 5: The frequency points of this group can be manually changed.

- The transmitter and receiver must be set to the same Group and CH for work.

3. Related Concepts

- **Hybrid Power:** Can use two 1.5v ordinary AAA batteries, or two 3.7V, 14500 rechargeable lithium batteries, which can be switched independently and cannot be mixed.
- **Gain:** Volume gain, this option controls the final playback volume.
- **RF Power:** This is the signal transmission function. This option can affect the receiving distance. Excessive transmission power may cause wireless interference.
- **Noise Gate:** Function to reduce ambient noise.
- **Pair:** When the microphone and the receiver you plan to match are in the pair state at the same time, bring the screens of the two close to each other to complete the automatic pairing of the microphone and receiver.
- **Performance:** product performance selection: High Quality - Recommended option, focusing on sound quality and providing stage performance and studio-level sound quality. High Reliability - The default option, focusing on the reliability of the wireless channel and longer distances.

4. Instructions

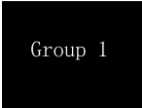
4.1 Basic Operations

- **Power on/off:** Press and hold the front power button for 5s.
- **Mute:** During operation, short press the front switch key to enter the mute state, and the product will not transmit audio.
- **Settings:** Slide the back cover of the microphone downward to open it. After opening, you will see the setting button.
- **Pair:** No operation is required during the pairing process of this device. After the receiver enters the Pair state, point the infrared area of the device toward the infrared transmitting area of the receiver to complete pairing.

4.2 Enter the setting state to modify the configuration

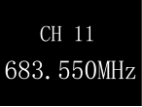
- Short press the setting button to enter the setting state. Keep pressing the setting button briefly, and the system will switch menus in the following order.
- After selecting the target menu, short press the "Settings key" on the front to change the configuration value of the menu.

4.3 Group Setting



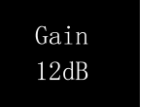
- Five groups 1 / 2 / 3 / 4 / 5 can be selected.
- There are 12 channels to choose from under each Group, and the fifth group has 11 channels to choose from.
- Group 5 is a customizable group.

4.4 Channel Setting



- You can select a channels under the Group.
- Each channel number corresponds to an independent frequency point. Changing the channel number will automatically change the corresponding frequency point.

4.5 Gain Setting



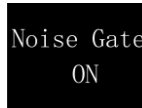
- Default is 0 dB.
- Nine gears are available: 0, 3, 6, 9, 12, 15, 18, 21, and 24.

4.6 RF Power Setting



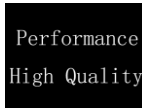
- Default is Low .
- There are three gears available: Low, Middle and High.

4.7 Noise Gate Setting



- Default is Off state.
- Optionally turn on the noise gate function.

4.8 Performance Setting



- Work performance selection, default is Quality.
- Optional: High Reliability, High Quality
- Recommended option: High Quality.

! This configuration must be consistent with the transmitter, otherwise it will not work properly. If the Receiver does not have this menu, High will be used by default.

4.9 Information



- Display software version number and release date.

Parameters

Wireless Communication Parameters

Items	Paremeter
Mode	Digital Communication
Modulation	Pi/4DQPSK
Freq. Band	510~590,668~698MHz, differences according to regions
Bandwidth	80Mhz + 30MHz
Number of CHs	36 Channels
Radio Output	<18dBm
Distance	70m (@no interference environment, and different from different transmitter)
Sensitivity	-96dBm
S/N	>96dB
T.H.D	<0.03%@1KHz
Freq. Response	20Hz-20KHz, attenuation<2dB
Phase Response	20Hz-20KHz, about -30°~60°
Time Delay	4.17ms

Acoustic Indicators

Item	Parameters
Type	Dynamic Microphone
Sensitivity	0^0 - 71dB±3dB (0dB=1V/ubar @ 1KHz)
Freq. Response	50Hz ~ 16kHz
Output impedance	600Ω ± 30% (@1KHz)
Directivity	Single pointing

Physical Electrical Indicators

Item	Parameters
Power	14500 lithium battery (3.7V) *2 or AA5 battery (1.5V) *2 [Mixed power technology]
Battery Life	> 8h (lithium battery) / 5h (AA 5 battery)
Scope of Work	5 °C ~ 45 °C (battery characteristics may limit this range)
weight	210g (without battery)
Size	94mm*64mm*21mm
Material	Engineering plastics
Storage Condition	‘-5°C ~ 74°C (Battery characteristics may limit this range)

The Receiver Description

The DTT22X series launch product is recommended to use the brand DTR22X series receiving end products.

! The equipment can be compatible with the previous model, but the recommended product can ensure that the performance is fully displayed.