

Digital UHF Wireless System Universal Receiver Manual

DTR223-2MR (2Channel) / DTR223-4MR (4Channel)

DT248R-2PA (2Channel) / DT248R-4PA (4Channel)

DT248R-2ST (2Channel)

Appearance

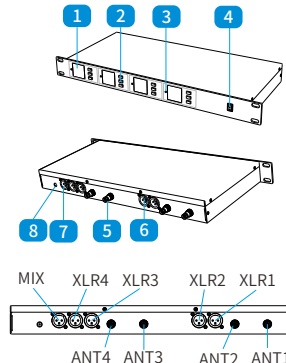
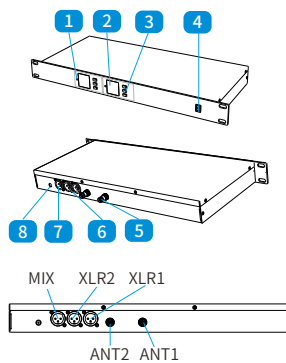
DTR223-2MR 2CH Receiver

DT248R-2PA 2CH Receiver

DT248R-2ST 2CH Receiver

DTR223-4MR 4CH Receiver

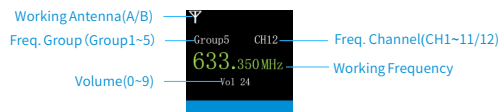
DT248R-4PA 4CH Receiver



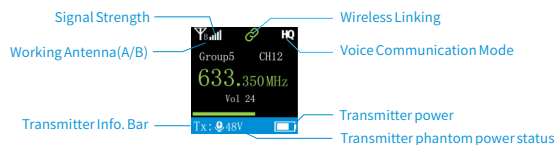
- | | | |
|------------|-----------------|----------------|
| 1 Screen | 4 POWER | 7 MIX Output |
| 2 Key | 5 BNC Interface | 8 Power Supply |
| 3 Infrared | 6 XLR Output | |

Instructions

1. Main (Without Linking)



2. Main (Without Linking)



3. Concept Description

- Voice communication mode (RF Performance):** HQ (Hi-quality), excellent sound quality; HA (Hi-available performance), the transmission distance is longer. Must keep same option between TX and RX. The default is HQ mode.
- CH & Frequency:** Each channel corresponds to a frequency.

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4. Wireless Channel Management Logic

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

Group: The system has several channel groups (base on different region and firmware), 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 be changed by selecting a different CH (besides last group).

Customized Group: The last group is customized group, and frequency points of this group can be manually changed.

5. Instructions

- Paring:** The receiver enters the "Paring" state, and the infrared binding point of the transmitter is aligned with the infrared binding point of the receiver. No operation is required on the transmitter.
- Enter/exit configuration state.**
Short press the "Set" key to enter the configuration state.
Short press the "Set" key to switch items; and press the "Up" & "Down" key to modify the parameters.
After polling each items or after 5s of no operation, it will automatically exit.

6. Note

- Each receiver model operates on a different frequency band; please refer to the last digit of the model number.
- Inferior power adapters may cause noise.

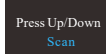
Setting Instruction

1. Pair



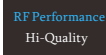
- Press "up" or "down" to enter pairing mode.
- The system will automatically scan and select the optimal frequency from this group.

2. Scan



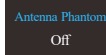
- The smaller the value, the better the wireless environment. Channels below -70dB is recommended.

3. RF Performance



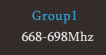
- HQ (Hi-quality), 24 bit with superior sound quality;
- HA (Hi-available), 16 bit for longer transmission distance.

4. Antenna Phantom



- Provide power supply for external antenna, with 9V 150mA DC.

5. Group



- The number of groups varies depending on the country, software version, and receiver frequency band.

6. Frequency Channel



- This item can change the transmitter's Working Frequency, providing 12 options.

7. Version Info.



- This item displays the product software version.

Parameters

Communication	Digital UHF Wireless Communication
Modulation	PSK
Band	530~590MHz (5359) / 640~700MHz(6470) (Different regions have different requirements.)
Bandwidth	60MHz (Adaptive Multi-Filter Circuit)
Sampling	48Khz
Ture Diversity	DTR223-2MR/4MR : Cross Backup Mode DT248R-2PE/4PE : Cross Backup Mode DT248R-2ST : Main + Standby Backup Mode
Transmission Distance	DTR223-2MR/4MR : 50~70m DT248R-2PE/4PE : 50~70m DT248R-2ST : 70~90m (varies depending on the wireless environment & TX.)
Sensitivity	>-96dBm
S/N	DTR223-2MR/4MR : >105dB DT248R-2PE/4PE : >120dB DT248R-2ST : >120dB
Dynamic Range	DTR223-2MR/4MR : 105dB DT248R-2PE/4PE : >120dB DT248R-2ST : >120dB
T.H.D	<0.03% (@1KHz)
Freq. Response	20Hz~20KHz, Attenuation<3dB
Phase Response	DTR223-2MR/4MR : - DT248R-2PE/4PE : 30°~60° (20Hz~20KHz) DT248R-2ST : 30°~60° (20Hz~20KHz)
Latency	4ms
Acoustics Measurement	DTR223-2MR/4MR : Not Supported DT248R-2PE/4PE : Supported DT248R-2ST : Supported
Power Supply	12V/1A
Dimension	480*200*45mm (Without antenna)
Weight	DTR223-2MR/4MR : 2050g / 2150g DT248R-2PE/4PE : 2050g / 2150g DT248R-2ST : 2050g
Working Temperature	-10°C ~ 45°C