

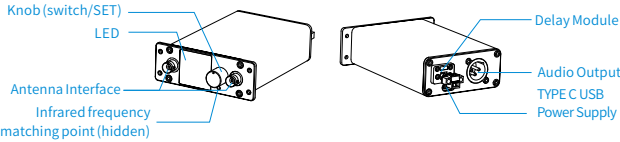
# Rack-mounted Receiver

## (Engineering Enhancement Edition)

DTR225-1TE

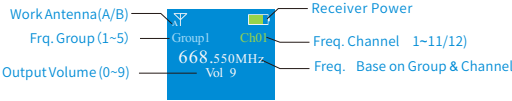
- Digital UHF technology, anti-interference, near lossless sound quality, designed for wireless audio engineering scenarios,
- Excellent frequency response attenuation, phase shift, SN, and distortion. The transmission distance up to 300M, supports sound measurement.
- Self-contained relay function, capable of controlling the on/off operation of external devices (such as speakers).

### Appearance

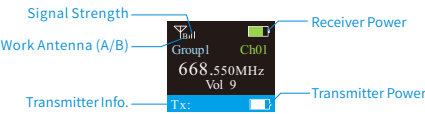


### Instructions

#### 1. Main Interface (Without Linker)



#### 2. Main Interface (With Linker)



#### 3. Setting Interface

Short press the bottom SET button to cycle through the following sequence, and short press the panel button to modify the parameters.

|                  |                     |                              |                        |
|------------------|---------------------|------------------------------|------------------------|
| Group 1          | CH 01<br>668.550MHz | Set Freq<br>02<br>669.550MHz | Noise Gate<br>Off      |
| Work Group       | Work Channel        | Freq. Setting On for Group5  | Noise Gate             |
| Relay Mode<br>AF | Scan Freq.          | Press Up/Down<br>Pair        | Ver8.20<br>Jul 16 2023 |
| Relay Mode       | Scan Freq.          | IR pairing                   | Version info.          |

#### 3. 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.

4. Automatic Pairing

Long press the SET key between the transmitter and receiver to enter the mode; Align the receiver' s "Infrared Transmitter" with the transmitter' s "Infrared Receiver" to complete the pairing.

5. Operating instructions

- **Settings:** Press the "Settings" button on the main interface to switch in order, and press the "Status" button to modify the settings.
- **Set the relay working mode, Relay Mode:** AF -Sound trigger, the relay module will shut down after 5 minutes of no sound; RF -Signal trigger, the relay module will shut down after 5 minutes of no signal.
- **On-site wireless environment scanning, Scan Freq:** Scan the signal strength under this Group. "CH1 -78dB" means the CH1 channel signal strength is -78dB. The lower the value, the less interference and it is suitable for use. For example: -78dB is better than -68dB. it is not be recommended for >-50dB.
- **If multiple sets of devices are working simultaneously, different groups and frequency points must be set between each group. Otherwise, interference will occur.**



Performance Parameters

|                            |  |
|----------------------------|--|
| communication mode         | UHF band radio digital communication   |
| modulation                 | Pi/4 DQPSK   |
| Band                       | 668MHz ~ 698MHz (Varies depending on region)   |
| RF Output                  | <18dBm   |
| Distance                   | 100M (with Portable Rx) / 300M (with Rack Mounted Rx)<br>(related to signal absorption, reflection, interference, and selection) |
| Freq. Response Attenuation | <2dB (20Hz~20KHz)  |
| S/N                        | >101dB   |
| T.H.D                      | <0.03% (@1KHz)   |
| Time Delay                 | 4.17ms   |
| Antenna                    | 600MHz, (BNC interface)  |
| Endurance                  | >18h   |
| Power Supply               | 18650 Build-in Li Battery (3.7V) *2  |
| Weight/Size                | 334g(Without antenna) / 35mm*100mm*142mm   |

References

1. If no signal output with the condenser microphone, please check whether the phantom power supply is selected.
2. The low-quality Li battery be adopted, its will interfere with the performance.
3. Some Mic. may cause interference due to poor signal shielding, which can be solved by using Cannon extension tube.

Warning

-  Fake and inferior batteries may cause leakage or even explosion. If abnormal states are found for batteries, please stop to work immediately!
-  Exposing the device to sunlight or working in a high-temperature environment may cause performance degradation or even damage!