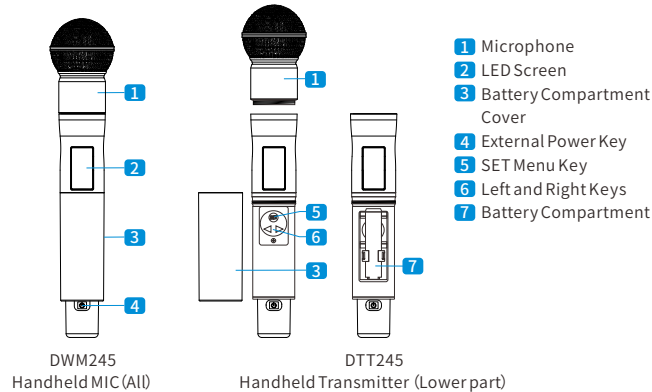


# Handheld Transmitter Manual (DTT245) Handheld Microphone Manual (DWM245)

This device consists of two parts: Mic. capsule & handheld transmitter.

## Appearance



## Feature

- Supports traditional mode of infrared pairing and is compatible with other models of receivers of the same brand.
- Stage-level digital communication technology achieves high-fidelity and low-latency wireless transmission of audio.

## Concept

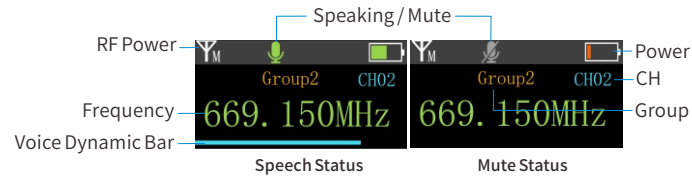
### 1. Wireless Channel Management Logic

- Follow the "Group - Channel - Frequency" logic.  
**Group:** The system has several built-in wireless channel groups (different in different countries and different firmware versions), each group includes 12 wireless channels.  
**CH:** Each wireless channel maps a frequency. The 12 wireless channels under the same Group are the recommended frequencies, which can avoid "intermodulation interference".  
**Frequency:** Change by selecting different CHs (except the last group).  
**Customized Group:** The last group is a customized frequency group. The frequencies mapped to each channel can be changed manually, and "intermodulation interference" needs to be avoided manually.
- Tx stands for transmitter and Rx stands for receiver.

## Instructions

- The function of the external low-end switch key can be set.
- Press the internal SET setting key to enter the setting menu.
- In the configuration interface, you can use the "left" and "right" keys to select menus or change parameters.

### 1. Main



### 2. Infrared Pairing

Long press the SET button on the transmitter to enter pairing mode; align the receiver's infrared Tx with the transmitter's infrared Rx to complete pairing.

## Setting

### 1. Group Setting

Group 1

- Select the frequency group.
- In AFH mode, no setting is required.

### 2. CH Setting - Frequency Setting

CH 1  
633.350MHz

- CH number corresponds to different frequencies.
- In AFH mode, no setting is required.

### 3. Frequency Setting for Customized Group

Set Freq.  
CH 02  
688.350MHz

- This menu appears only if a custom group is selected.
- In AFH mode, no setting is required.

### 4. Gain Setting

Gain  
18 dB

- Gain setting, corresponding to the volume of the MIC.
- Every 3dB represents a doubling of the volume.

### 5. RF Power Setting

RF Power  
Middle

- Low / Middle / High.
- Corresponding to 10mW / 20mW / 50mW.

### 6. External Key Settings

Key Function  
Mute+Power

- Mute+Power: long press to power on or off, short press to speak or mute.
- Power: long press to power on or off, no mute function.
- Mute: short press to speak or mute, remove the battery to turn off.
- None: have no function, remove the battery to turn off.

### 7. Info

EUROPE  
Ver 1.0.0  
Jul 2 2025

- "Region" The geographical area to which the software version is applicable. Different options have different frequencies. Select the correct option to comply with local regulations.
- The transmitter and receiver should use the same Region option.
- To change the "Region", contact your local dealer.

## OTA Mode

- Press and hold the Menu button while turning on the device to enter OTA mode.
- In OTA mode, you can perform OTA upgrades and restore factory settings.
- In OTA mode, you need technical support to change the settings.

## Parameters

### 1. Communication and Electrical Indicators

|                       |                                                                      |
|-----------------------|----------------------------------------------------------------------|
| Communication Mode    | UHF Wireless Digital Communications                                  |
| Modulation            | Pi/4 DQPSK                                                           |
| Num. of Digital       | 24Bit                                                                |
| Sampling Rate         | 48Khz                                                                |
| Frequency Band        | 510~698MHz (Varies by region)                                        |
| RF Output             | <18dBm                                                               |
| Transmission Distance | >50m (work with DS240Series)<br>>80m (work with Standard Rx)         |
| Frequency Attenuation | <3dB (20Hz~20KHz)                                                    |
| S/N                   | >112dB                                                               |
| Dynamic Range         | 105dB                                                                |
| BG Noise Voltage      | <12uV                                                                |
| T.H.D                 | <0.03% (@1KHz)                                                       |
| Latency               | 4.17ms                                                               |
| Screen                | LED                                                                  |
| Power                 | 14500 Li-battery x2 / AA Battery x2 (Hybrid Battery Tech)            |
| Battery Life          | >6h (AA Battery) / >10h (14500Li battery)                            |
| Weight / Dimension    | 383g (with MIC Capsule & Battery)<br>L=252mm, R <sub>max</sub> =52mm |

### 2. Acoustic Indicators

Standard microphone installed by default

|                    |                                     |
|--------------------|-------------------------------------|
| Type               | Dynamic                             |
| Directivity        | Single Direction                    |
| Output Impedance   | 600Ω                                |
| Frequency Response | 100Hz~10KHz                         |
| Sensitivity        | 0°-71dB ± 3dB (0dB=1V/ubar at 1KHz) |

## Precautions

- It is recommended to replace the GAODIMIC M45 microphone head, which can greatly improve the sound quality.
- When replacing a capsule with another brand, an electric current sound may occur due to electromagnetic wave shielding performance issues, and you may need to lower the RF POWER.

## Warn

- ⚠ Avoid exposing the device to sunlight for a long time or working in a high temperature environment!