



PowerSound V9.00 Infrared Sensor Ceiling Speaker





1. Introduction

Human body induction is a kind of technology that infrared pyroelectric principle is used to induce the body activity information. When a person enters the sensor's induction range, the information will be accurately identified and detected, which is like cat's eyes, not rely on the light. Even in the dark environment, it can work normally, overcoming the deficiencies of the light induction.

PowerSound V9.00 adopts WT2003S-16S voice chip, support DIY function, MP3 audio format, high-power speaker. When detect people passing by, the device will play voice immediately. Use can replace the voice content to have different sound effect.

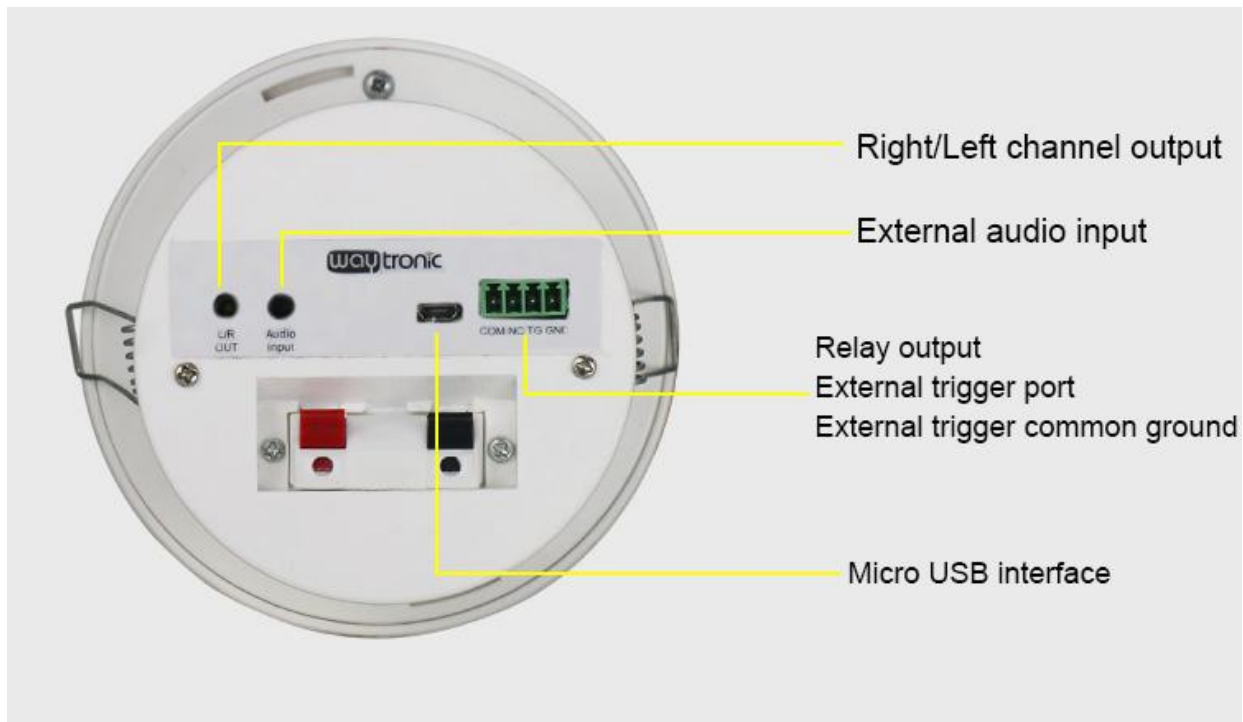
2. Features

- ✧ Infrared pyroelectric induction.
- ✧ Can replace voice files, connected to computer by USB cable through micro USB interface(USB flash drive function).
- ✧ LINE IN and external audio output function
- ✧ Infrared remote control function.
- ✧ Support one-channel relay output control.
- ✧ Support external trigger playing function.
- ✧ Built in 8Ω/3W speaker
- ✧ Power down memory function.
- ✧ Support DC 5V external power supply.

3. Electrical Parameters

Rated voltage	DC 5V (MicroUSB power)	
Working current	Playing current	≤300(mA)
	Standby current	≤20(mA)
Audio format	MP3	Bit rate: 8~320Kbps
Audio output power	8Ω/3W((typical value)	
Infrared detecting range	≤4m(120°)	
Working temperature	-10~35℃	
Working humidity	10~85%RH	

4. Function introduction

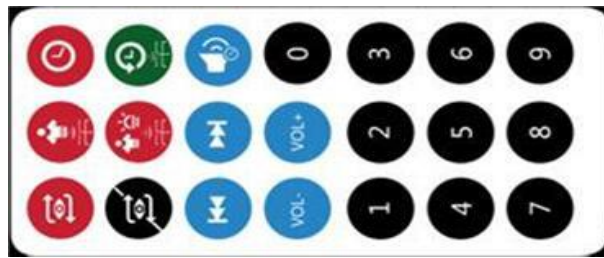











5. Operation instruction

Function	Description
Human body induction	When walk through the induction area, trigger to play. What it plays is the audio last time you listened to. Red light on when playing, light off when finish playing.
External audio input switch (PH1)	Input audio signal through 3.5mm audio port. When detecting external audio signal, automatically switch and play external audio.
Left/right channel output (PH2)	Output left channel and right channel through 3.5mm audio port, used for external amplifier.
Relay output	When sensor induction triggers to play, relay closure; after audio play ends, 10 seconds later, relay open(default). You can set delayed turn-off time(up to 99s).
Replace audio	Connect to computer through micro USB interface to replace audio.
External trigger	One external trigger port, low pulse or low active, low pulse interruptable, low level continuous loop playback
Indicator light	Light on when playing, light off when stop playing.
Micro USB interface	DC5V power supply
Audio output	8Ω/3W speaker
Induction distance	≤4meters

Note: this product supports microUSB power supply. During the turn-on process, there is some time to initialize, so you need to wait 5 seconds, then the induction will be normal.

6. The operation of remote controller



No.	Keys	Description
1		Short press to enable the relay control
2		Short press to disable the relay control
3		Short press, mute on; short press again, mute off.
4		Short press to set relay delayed turn-off time(1s~99s), directly input numbers. If set successfully, red light flashes 5 times.
5		Short press to play the previous audio or listen to the audio triggered currently.
6		Short press to play the next audio or listen to the audio triggered currently.
7		Short press VOL+
8		Short press VOL-
9		0-9 number keys

7. Notes

Temperature too high ($\geq 35^{\circ}\text{C}$) will affect induction distance and sensitivity.

Air conditioner, electric fan towards the sensor, that will affect induction distance and sensitivity.

When it is powered by battery, if battery power is too low, there may be false alarm and no voice broadcast, or other bad phenomenon.

8. Installation

Ceiling mounted: 3 meters high above the ground; the sensor should be parallel with the ceiling.

Indemnification

Shenzhen Waytronic Electronics Co., Ltd reserves the right to modify and use information without prior notice to customers. New product specifications will be subject to the latest version.