



PowerSound

Microwave Induction Voice Prompter

(WTB01P0951)

V1.0





1. Features

- Using microwave human body induction technology.
- Wide induction range.
- Support DIY. Features and accessories can be customized.
- Offline to replace the voice without tools and software.
- Power-down memory function.
- Built-in MP3 module, supporting MP3 audio format.
- With internal SPI-Flash memory, available to store audio of 5-30 minutes.
- Support SD card playback(not support hot-plug); play voice of the SPI-flash if there is no SD card.
- Maximally support 32G SD card.
- Support two play modes: loop sequence, single playback.
- 10-level volume control
- Built-in 14W power amplifier
- Support 315M/433M wireless remote control playing(optional function): Previous, Next, Vol+, Vol-.

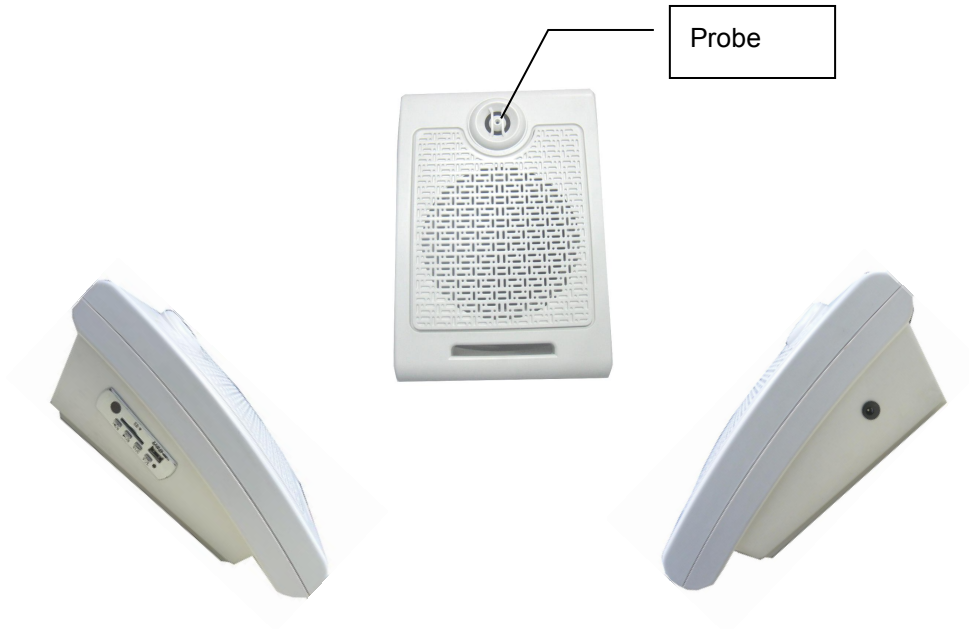
2. Parameters

Power supply	DC12V ~ 24V	
Working current	Standby state	≤60MA
	Playing state	≤600mA (DC24V)
Audio format	MP3	Bit rate: 8~320Kbps
Audio output power	8Ω/10W	
Induction range	≤7 meters (160°angle)	

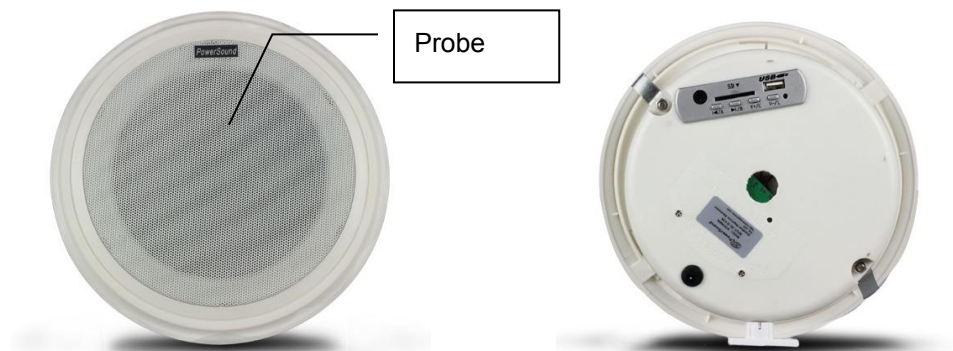
3. Appearance

3.1 Size

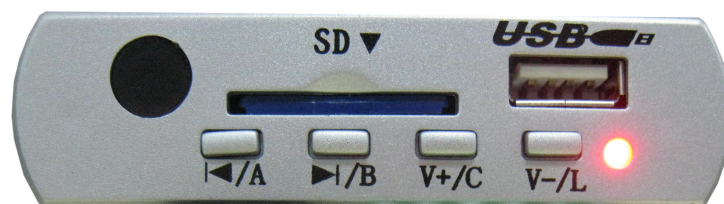
Wall hanging speaker: 27*18*13CM



Ceiling speaker: 23*18*8.5CM



3.2 Control panel

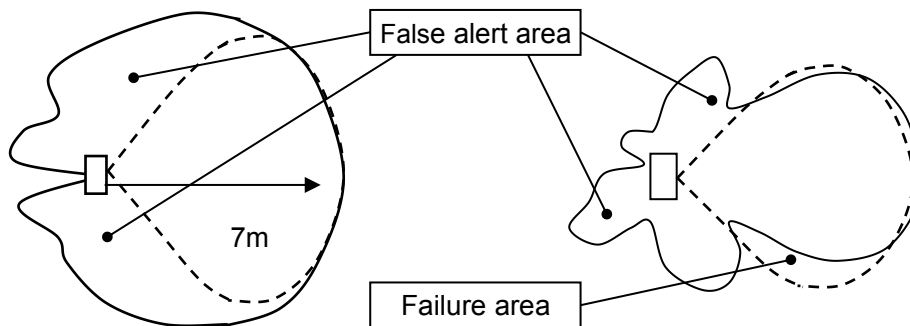


4. Fast start guide

4.1 Operation

Button	Operation	Description
Previous/A	Short press	Switch to the previous one
	Long press 3S	Red light flashing once means switching to A mode successfully; A mode is the loop trigger mode, that is, each trigger has different voice play.
Next/B	Short press	Switch to the next one
	Long press	Red light flashing twice means switching to B mode; B mode is the single loop mode, that is, each triggering, the same voice will be played.
V+/C	Short press	Volume up
	Long press 3S	Red light flashing means into the copy mode; insert the U disk and copy the audio to the internal flash.
V-/L	Short press	Volume down
	Long press 3S	Invalid

4.2 Difference between microwave sensor and infrared sensor



Picture 1 Horizontal field strength diagram Picture2 Vertical field strength diagram

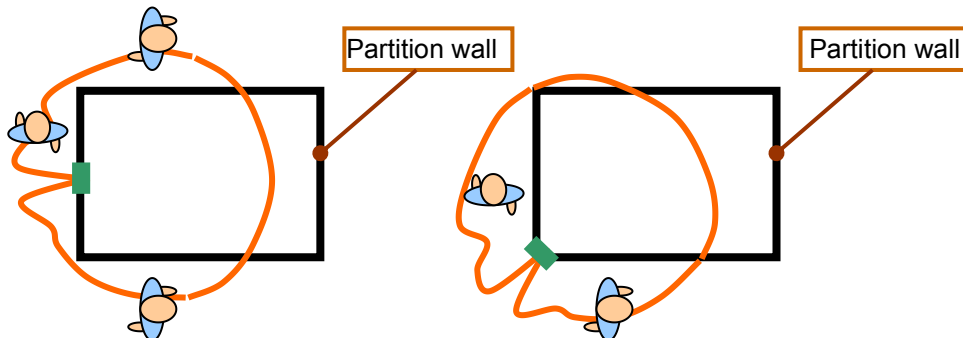
Picture 1: the area with solid line is the horizontal field strength diagram of microstrip antenna;

Picture 2: the area with solid line is the vertical field strength diagram of microstrip antenna;

Obviously, there is a discrepancy between microwave field-strength diagram and infrared detection region(dotted line). From the picture you can know the false alert area and failure area.

Microwave sensor has wide applications, because it can penetrate through the thin non-metallic objects (such as ceilings, wood, etc.), but also won't be affected by temperature. If waterproof measures have been taken, it can be used outdoor, without many limits to the Installation conditions. Compared with infrared sensor, the only drawback is that the metal objects can be sensed, no metal object in front of the sensor probe, otherwise the induction distance will be very short or even unable to have induction.

Microwave has the penetrating capacity of the building wall. When the microwave outside the wall has an effect on the moving object outside the security area, may cause false alarm. As for this type of probe it should be careful to choose install location, avoiding false alarm. Figure 3 is a sketch of false alarm.



Picture 3 Microwave false alarm

Use U disk to replace audio: only put the audio file you want to change in the U disk, no other files or folders in it, otherwise, copy will be failure, then follow below steps:

First, copy the audio file into root directory of U disk. Without any special name, the audio file will be copied to inner Flash according the storage order. If there is special requirement for the order, please copy files to U disk one by one.

Second, insert U disk into USB interface, long press " V+C" until indicator light flashes, then release the button. After finishing copy, indicator light will go off automatically.

Indemnification

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