



# SmartSound PIR Human Body Induced voice announcer

(WT01S0195)

Operation Manual





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# SmartSound PIR Human Body Induced voice announcer

## 1 Brief Introduction

The human body induction is a new technology using infrared and pyroelectric principles to detect temperature changes, which can automatically and accurately identify, detect and induce the information that has temperature changes including human bodies. It doesn't rely on light, and even in dark environment it also can keep stable and reliable work.

Smart Sound Human Body Induced Voice Announcer is one member of our SmartSound family. The series of products to support a strong DIY feature, the user can select accessories according to the specific requirements of application. Smart Sound Human Body Induced Voice Announcer adopts very mature body induction technology. When it detects passing human bodies or heating objects, it can automatically at the first time play back the voices of greetings, warm hints, alarms, and so on. It can also load different musics according to the specific applications, in order to realize the effect that when people pass by, the device can automatically play the music. Smart Sound Human Body Induced Voice Announcer can be used in the galleries, subway stations, elevators, door control prompts, automatic megaphones and so on.

For your better understanding of installation and configuration process of the product, please read this manual carefully.

## 2 Features

- Adopt infrared sensing technology
- Sensing head/inductive probe can be rotated 60° at both left and right sides
- Can change voice content at will
- Support memory function when power-off.
- Support to play the audios of WAV and MP3
- High sound quality audio output
- Support maximum 4GB TFcard
- Support USB2.0 protocol to transmit data; can read the data in SD card through the USB cable to connect to computer
- 3-level volume is adjustable

- Built-in 2W amplifier circuits to ensure loud and beautiful voice
- Auto sleeping circuits design, can keep long-term standby
- Built-in automatic charging circuits
- Plug and play type design
- Built-in 350mAH lithium battery, time durable

### 3 Electrical parameters

Power supply	DC5V	
	3.7V Li-battery	
	3 1.5V 7dry cell	
Working current	Standby state, insert TF card, Li-battery	≤ 65uA
	Play state, insert TF card, Li-battery	≤ 200mA
Charge current	≤ 710mA	
Audio media format	MP3	Code ratio: 8~320Kbps
	WAV	Sample ratio : 8K、12K、16K、24K、32K、 44.1K
Audio output power	8Ω/2W ( representative value )	
Range of infrared induce	≤ 5m ( 120° )	

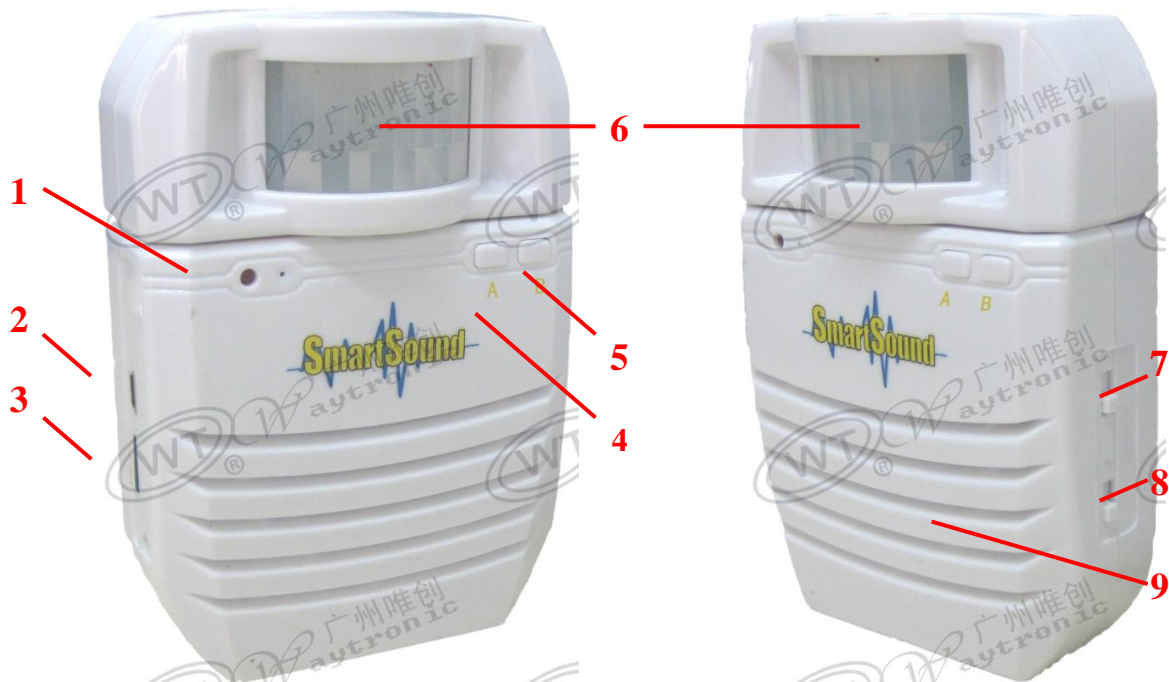
Note: Please load WAV voice according to the sample ratio as above, otherwise sound quality will be worse

### 4 Product Appearance

#### 4.1 Dimension



#### 4.2 Panel



Number	Name	Function	
1	Indicate led	Light when USB is inserted	
		It will flash once when power-on	
2	USB interface	USB state :for replace voice content	
		supply power and charge	
3	TF card interface	Connect standard TF card for store voice	
4	A	Previous/press 3s switch to A mode	
5	B	Next / press 3s switch to B mode	
6	IR Inductive Probe 【1】	Body infrared sensor measuring device	
7	State switch	ON : using state	OFF : U-disk state
8	Volume switch	3-level volume is adjustable	
9	S : small speaker	Output sound	
	L : large speaker		

【1】: Products reserved rich, scalable interface to replace the different sensor make application wider

### 4.3 Life reference table

When playback Audio, the instantaneous current will always change, according to the work of Smartsound PIR voice prompts, given some current typical value and the average battery life (see below table), as reference

8Ω/1W speaker	Working mode ( representative value )	150mA
16Ω/0.5W speaker		85mA
32Ω/0.5W speaker		50mA
quiescent current(mA)		0.065mA

Power supply mode	discharge condition	Discharge time		
		8Ω/1W speaker	16Ω/0.5W speaker	32Ω/0.5W speaker
Dry cell(400mA.h)	10s/time ,10time/day	69 day	102 day	135 day
Li- battery(500mA.h)	10s/time ,10time/day	87 day	127 day	169 day

Note: The battery can't work at bellow 1.1V, so the capacity take the available 400mA.h

## 5 Quick guide

First install hardware according to installation diagram,ensure every parameters is normal, especial power supply.

### 5.1 installation operation

There have a hanging hole behind the shell of SmartSound , mating with Mounting bracket , can be easily hung in the appropriate position , the sensor of SmartSound can be rotated about 60 ° (Figure shown below), can turn to different sensing areas according to the actual needs .



Place the product into a predetermined position, when someone enters sensitive areas, it will automatically play the voice



## 5.2 Power supply operation

This product can be used in 3.7V Li battery, also can use 3 AAA batteries, and can be powered using the USB interface.

## 5.3 Power-on operation

Turn switch to the ON state (using state), light will flash. Without any operation, the product will be standby. when Sensor is triggered will playback voice

**Note:** When sensor circuit is powered on, there will be 8-15 seconds to activate the sensors. During this time, no induction or react very slow is normal, it will induce normal after this period of time .

## 5.4 charging

when using the USB cable for power supply to product via a USB interface, it will charge built-in lithium battery, charging status indicator LED will light all the time.

## 5.5 Insert TF card

Follow TF card label directions to insert TF card, this product supports hot Plugging TF card.

## 5.6 Loading / replacing the voice file

switch to the OFF state (U disk state). Then, using the USB cable to connect the product with computer, view and update U disk audio files in the PC-side "My Computer".

The product is stored according to stow order file documents to define the voice address, we would usually editing audio file well in the PC , change the audio file name, beginning with 5 digits ,such as 00001.mp3, 00002.mp3, etc., it is convenient to View order of audio file. Place these audio files in the same folder, press on the keyboard "Ctrl + A" to select all, press "Ctrl + C" to copy, back to the TF card, clear all files, press "Ctrl + V" to paste, so that we can effectively put edited files in the computer to TF card in order .



The more files TF card store , the time will be longer from the trigger to play .

Note: There will have a delay (about 850ms) from triggered to start playback, finish play a sound, there will be 300ms ~ 500ms voice be cut off. Therefore, when you editing voice, please don't try to put the mute at the beginning of sound , but insert about 500ms mute at the end of sound.

## 5.7 Select mode

The product support A, B two modes. Users can choose the right mode according to the actual requirements

B mode: In this mode, single repeat ,each trigger smartsound, will play the current song, do not jump to other songs

A mode: in this mode, each trigger, will play the next song, such as the current is track 1, triggering one time, play track 2, then trigger again, play tracks 3, and so on. When playing the last one, trigger again, it will loop to track 1.

Press [A button] 3 seconds, smartsound will choose as A mode, press [B button] 3 seconds, smartsound will choose as B mode, easy to operate.

## 5.8 Audition

This product will keep the memory of the last track played last time. In the audition audio, must first switch to the ON state.

When in standby state, press [A button] or [B] key will start playing next or previous track from current song according to index order, the product will automatically remember the last selected track.

When playing the first song or last one, press [A button] or [B] key is invalid.

Toggle [volume] switch , adjust the suitable volume level for the user. Volume can not be muted

## 6 Typical Application









## 7 FAQ

**Question 1:** When using this product, found that play half of the voice ,it stop and then continue to play, non-stop cycle. what kind of situation it is.

**A:** It's instability caused by shortage of your batteries or lithium battery. Change new batteries or recharge the lithium battery .

**Question 2:** This product can not be normal playback, the speaker emits a "blah" sound, like it is reading card?

**A:** When voice can not be played normal(the speaker issued a "blah" sound), please format TF card f, and then reload the voice .

**Question 3:** when playing the voice, sometimes it will cut at least a 0.5-2 seconds sound. why?

**A:** The product has a feature, there will have a delay (about 850ms) from triggered to start playback, finish play a sound, there will be 300ms ~ 500ms voice be cut off. Therefore, when you editing voice, please don't try to put the mute at the beginning of sound , but insert about 500ms mute at the end of sound.



**Question 4:** After power on, there is a time no response or reaction or insensitive, there are delays and so on. How it is happen?

**A:** When sensor circuit is powered on, there will be 8-15 seconds to activate the sensors. During this time, no induction or react very slow is normal, it will induce normal after this period of time .

## 8 Contact information

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