

SmartSound - Motion Activated Audio Player



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Introduction

Congratulations on the purchase of your SmartSound device. This unit is widely used for applications requiring playback of preselected audio upon detecting motion. It has a built-in PIR (Passive Infrared) wide-angle sensor that detects motion from up to 16 feet (5 meters) and works day or night, as it does not rely on light. The unit can be powered using the power supply provided or using the internal rechargeable batteries. To get the most out of your device, please read through this manual.

Package Contents

Each package is shipped with the following items:

1. 1x SmartSound unit (motion activated audio player device)
2. 1x micro-USB cable (3A) and plug (3B)
3. 2x mounting screws
4. 1x ball joint mount, wall (5A) and unit (5B) pieces
5. 1x Quick Start Guide



Required Tools

You require the following to start enjoying your device:

1. Screw driver to mount device to wall
2. Windows PC with USB slot to copy audio to the device (MAC/iOS machines will not work, as they often leave hidden non-MP3 files on memory causing player to malfunction)
3. Audio in MP3 format
 - If your audio is not in MP3 format, there are many free converts available online (for example, search for “WAV to MP3 converters”). Audio must be in MP3 format

Features & Specifications

Customizable	Full control over what sounds are played
Wide-Angle Sensor	120° view
Long Detection Range	16 feet (5 meters)
Adjustable field of view	Sensor can be rotated by 60° to the left or right
Ball Mount	Allows you to quickly and easily adjust orientation of entire unit
Built-in Memory	4MB built-in memory
Loud Speakers	Built-in 2-Watt speaker
Support for External Speaker	For even louder audio, use 3.5mm audio interface to connect to external speakers (3.5mm cable not included)
Portable & Flexible	Power using built-in rechargeable battery or AC power supply
MP3 Audio	MP3 - Bit Rate: 16-320 Kbps
Long Battery Life	When on battery, enters low-power mode to conserve energy
2 Modes of Operation	<ol style="list-style-type: none"> 1. Play a single file every time 2. Play multiple files in sequence
Power Supply	DC 5V, 3.7 500 mAH lithium battery
Audio Output Power	8 Ω/2 Watt

Buttons & Description

No.	Name
1	Indicator Light
2	External Audio Interface
3	USB Port
4	Sensor Unit
5	A Button
6	B Button
7	Power Switch
8	Volume Dial



Red LED Indicator

Working Mode	Status
Playing	On (steady) while playing audio
Low charge/power	Flashes 4 times after audio playback
Charging or connected to computer	Flashes slowly
Full Charge	Flashed 2 times every 5 seconds (when connected to power)

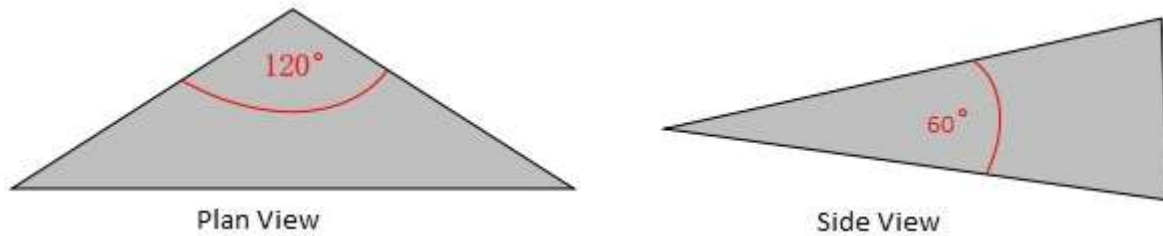
Button Function

Button Name	Operation	Function
On/Off Button	Pull Up/Down	Turn on/off
Button A	Short Press	Previous
	Hold for 3 seconds	Sequence Play Back Mode
Button B	Short Press	Next
	Hold for 3 seconds	Single File Play Back Mode
Volume Dial	Dial up or down	Increase or decrease volume

Installation Instructions

To avoid false triggers, do not install in areas that have direct sunlight, areas with large temperature variation, or near air conditioners and heaters.

This unit is designed for indoor use only. External use will result in moisture damaging internals of the device and void the warranty. The induction window (area where motion can be detected) is as illustrated below:



1. Attach to wall:

- Attach to wall directly or through included ball mount, either method can be used
- Using ball mount method allows you to adjust detection area while unit is in place
- Back of unit has 4 screw holes. Regardless of installation method chosen, only bottom 2 holes are used, upper ones are left unused

Directly to wall:

- Screw 2 screws provided into wall and attach unit by the bottom 2 screw holes

OR

Using ball mount:

- Screw part #5A into wall using 2 screws provided
- Insert part #5B into bottom 2 screw holes at back of unit
 - Pongs should be pointing up when inserted and pushed up firmly into place
- Firmly push unit into part #5A attached to wall until the ball snaps into socket
- To detach from wall, pull unit firmly to detach part #5A from part #5B

2. Adjust Sensor Angle and/or Unit (if desired, applicable only to Ball Mount Installation Method)

- To adjust area targeted for detection, rotate sensor head (top portion of unit) left or right
- Can also grab unit itself and swivel 360° degrees

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Charging

- Use the provided micro-USB adapter to recharge or keep plugged-in to use directly from outlet. Recharge from empty will take up to 4 hours.

Adding Audio

1. Use a PC/notebook that has a USB slot and connect it to the device
2. Ensure the USB cable is a data USB cable. The provided cable is a data USB cable. Not all cables are for data transfer, some are only for charging. If using your own USB cable, ensure it is a data cable or your PC will not recognize the device
3. A new drive will show up on your PC. Write MP3 audio to the device. **Ensure you only write MP3 files to the device and no other types of files. All files must be placed in the root directory, there should not be any sub-directories/folders.**



IMPORTANT:

- Total size of audio file(s) must be less than 4MB to fit onto the device. If total size of audio files you are trying to transfer is over 4MB, audio will not be transferred.
- To record your own voice/personalized messages, there are many free applications that let you record MP3 audio
- An iOS/MAC device should not be used to write audio to the device as they leave hidden non-MP3 files that will cause the device to not function properly

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Mode Selection

MODE 1. Play a single file every time

- With device on, short press button “B” to go to the file you want to play and stop there.
- Now while the file is playing, hold button “A” for 3 seconds and release when the indicator light starts flashing
- If after selecting a file, you later press A or B, the selection will reset and select this new file for playback, even without pressing A again for 3 seconds

MODE 2. Play multiple files in sequence

- With device on, press button “A” and hold until indicator starts flashing.
- Playback will now be in the same sequence as written to the device. See below for important details



TIP for Mode 2:

- Sequence of audio played follows the same sequence you used to transfer files to device’s memory
- Copy files from your PC one by one to the device. Playback sequence will follow the copy sequence

For example, if you have files called 001.mp3, 002.mp3, and 003.mp3 and you copy those files to the device in this sequence:

002.mp3
then 003.mp3
then 001.mp3

then playback under mode 2 will be in that same sequence:

002.mp3
then 003.mp3
then 001.mp3

Once motion is detected and audio is being played, the unit will not interrupt audio playback. It will keep playing the current file until completion, after which it will wait approximately 1 seconds and start detecting new motion again.

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Powering the Unit

The unit can be powered directly from an AC outlet using the supplied USB power adapter, or it can be powered using the internal rechargeable battery. To recharge battery, simply connect the USB power supply to the unit. Once fully charged, the built-in protection circuit will automatically disconnect charging. When the unit is turned on, it goes through an initialization process where it may take 10-30 seconds after power up for it to start detecting motion.

If you notice the performance of the unit degrading, such as lower sound volume or it is not detecting motion, this indicates the battery is low and needs recharging. The factors dictating how long the unit lasts on a single charge are:

- Activity in the room (how often unit triggers)
- Duration of audio files
- Volume setting selected

When using battery power, the unit will go into low power mode when no motion is detected to save power. It will automatically wake up when motion is detected.

Example Applications

- **Promotes Independent Living:**
 - “Check that you have your keys, wallet, and cell phone before leaving”
 - “Turn off oven before leaving”
- **Door Greeter/Notifier for entrances and storefronts**
 - Senses people coming in and plays greeting, uses at shops, events, parties
- **Point of Sale Advertising:**
 - Place near products, automatically plays advertising material when customers pass by
- **Safety Reminder**
 - Plays a reminder as soon as personnel enter a restricted area
 - Use to instruct pets to avoid certain areas when you are away
- **Exhibits /Trade Shows**
 - Pre-record material and have it played automatically to visitors at your booth
- **Security System**
 - Play audio of your choice as soon as motion is detected
- **Escape Rooms**
 - Automatically play audio when contestants enter the room

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Frequently Asked Questions

Q: I wrote files to the device but the device is not playing back audio.

Ensure your device only has MP3 files on it and no other files. Any file other than MP3 must be deleted. Ensure that the total size of all files is less than 4 MB.

Q: When I write to the device using a non-Microsoft Windows operating system (such as MAC), the unit is not playing back audio or not all features work as described.

Some systems write hidden files to the device. MACs/iOS devices will very often leave such files and cause the device to not function properly. Using a Windows PC is the safest and guaranteed method.

Q: Can this product play WAV audio? If not, what is the solution?

This product only supports MP3 audio but there are plenty of free WAV to MP3 converters available online

Q: During use, playback gets interrupted then continues to play and this repeats

This is caused by an unstable voltage and indicates that the battery is low. Recharge the battery

Q: After the unit is powered on, there is a period of time where there is no response or delayed response.

After power on, there will be 10-20 seconds of power initialization time. During this period, it is normal to have no or slow response. After this time, the unit will work normally

Q: I want files to be played in a specific sequence. Can you suggest an easy way to do this?

Files are played back in the order written to device memory. You can copy files manually one by one in the sequence desired.

Q: What if I want to play audio say 2 minutes after detecting motion and not right away?

Create an audio file where the first 2 minutes are silent and followed by your non-silent part.

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A Note about MP3

MP3 is a popular format for sound files and supports different bitrates. As with all MP3 files and devices, the playback time is dictated by the bitrate of your audio files. Recording programs often give you the option of selecting which bit rate to use. A recording with a higher bit rate provides better sound quality but also larger files.

Customer support & Warranty

We are here to help! If you have any questions or feedback, simply email us at info@sierrateck.com. Your feedback and suggestions are always welcome and help inspire future products. This unit comes with a 1-year warranty. If the unit is found defective, we will replace the unit at no cost to you or issue a full refund. Tampering with the internals of the unit or using the unit outdoors will void the warranty.

Limited time offer:

Register your product online within 14 days of delivery and receive a **free 6-month warranty extension!** It takes less than 30 seconds, register here:
<http://www.sierrateck.com/registration.html>