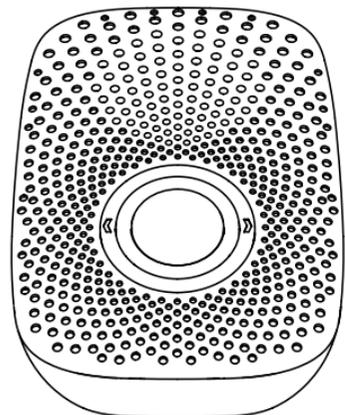




View the expanded manual:
<http://aeotec.com/support>



1 Aeotec by Aeon Labs Doorbell.

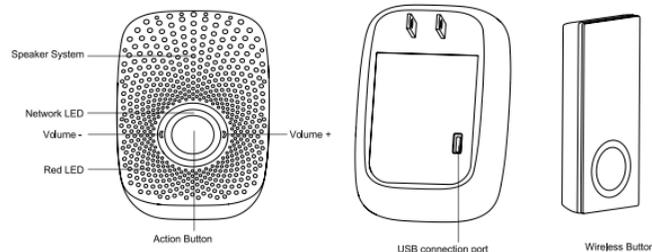
Your Aeon Labs Doorbell supports playing MP3 music files with a press of this Doorbell. It has a 16MB flash memory that can store up to 100 ringtones. The volume can be adjusted manually via short press on the Volume Button, also you can switch the Doorbell sound to the next via long press on the Volume Button. You may change/update your Doorbell ringtone at any point in time you want by connecting your Doorbell to your PC to update the sound track on your Doorbell's flash memory.

Your Doorbell is a Z-Wave® wireless control product. There is a small Wireless Button, which can trigger the Doorbell on the other side of the wall to play the selected Doorbell music when pressed. This Wireless Button has waterproof housing so it can be used in many weather conditions. The distance of wireless control is about 100 metres outdoors, and has a 2 year battery life that allows at least 10 Doorbell presses every day.

After the Doorbell is paired into your Z-wave network, you can use your controller/gateway/phone application to control its ringing, or configure its advanced functions.

2 Familiarize yourself with your Doorbell.

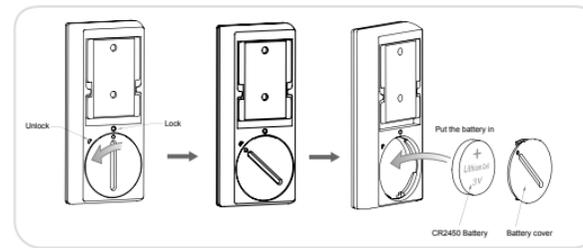
- Action Button
- 80dB Speaker System
- Volume Button
- Network LED
- Red LED
- Wireless Button
- USB connection port



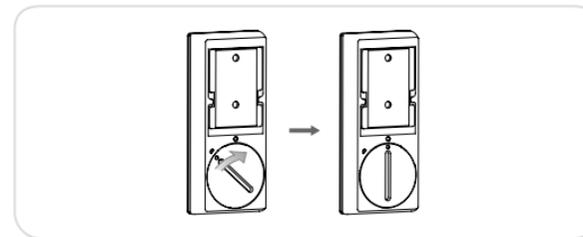
3 Quick start.

● Installation for the Wireless Button.

1. Open the Battery cover and put the CR2450 battery into Wireless Button.

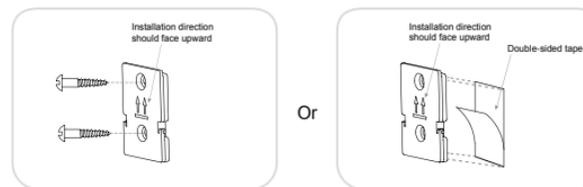


2. Lock the Battery cover.

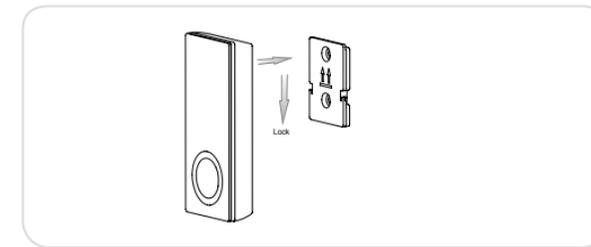


3. Affix the mount plate to the wall.

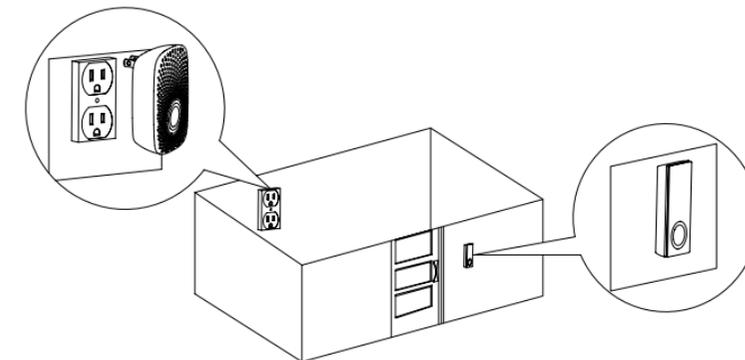
You can affix the mounting plate using two 20mm screws or double-sided tape.



4. Lock your Wireless Button on the mount plate.



5. Your installation is complete.



● Add/include/link your Doorbell to a Z-Wave network.

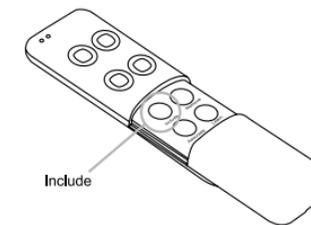
Getting your Doorbell up and running is as simple as plugging it into a wall socket and linking it to your existing Z-Wave network. The following instructions tell you how to link your Doorbell to your Z-Wave network using an Aeotec by Aeon Labs' Z-Stick or Minimote controller. If you are using other products as your main Z-Wave controller, such as a Z-Wave gateway, please refer to their respective manual that tells you how add new devices to your network.

If you're using a Z-Stick:



1. Decide where you want your Doorbell to be placed and plug it into a wall outlet. Its Network LED will begin to blink.
2. If your Z-Stick is plugged into a gateway or a computer, unplug it.
3. Take your Z-Stick to your Doorbell.
4. Press the Action Button on your Z-Stick. The LED on your Z-Stick should begin to blink slowly.
5. Press the Action Button on your Doorbell.
6. If your Doorbell has been successfully linked to your Z-Wave network, its Network LED will no longer blink. If the linking was unsuccessful and the Network LED continues to blink, repeat the steps above.
7. Press the Action Button on the Z-Stick to take it out of inclusion mode.

If you're using a Minimote:



1. Decide on where you want your Doorbell to be placed and plug it into a wall socket. Its Network LED will begin to blink.
2. Take your Minimote to your Doorbell.
3. Press the Include button on your Minimote.
4. Press the Action Button on your Doorbell.
5. If your Doorbell has been successfully linked to your Z-Wave network, its Network LED will no longer blink. If the linking was unsuccessful and the Network LED continues to blink, repeat the above steps.
6. Press any button on your Minimote to take it out of inclusion mode.

With your Doorbell now working as a part of your smart home, you'll be able to configure it from your home control software. Please refer to your software's user guide for precise instructions on configuring your Doorbell to your needs.

You're able to adjust your Doorbell's ringtone volume manually by using the "Volume -" or "Volume +" buttons. You can reduce its volume via short press on the "Volume -" button or increase the volume via short press on the "Volume +" button, at the same time the default doorbell music will be triggered to allow you to hear the volume change. If you want to change to the next ringtone, press and hold the Volume button, which will switch the current ringtone to the next one.

● **Removing your Doorbell from a Z-Wave network.**

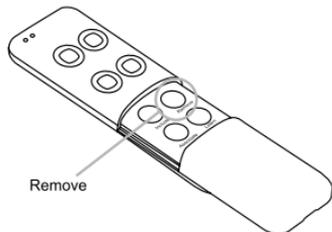
Your Doorbell can be removed from your Z-Wave network at any time. You'll need to use your Z-Wave network's main controller (or any other primary controller) to do this, the following instructions tell you how by using an Aeotec by Aeon Labs' Z-Stick or Minimote controller. If you are using other products as your main Z-Wave controller, please refer to the part of their respective manuals that tells you how remove devices from your network.

If you're using a Z-Stick



1. If your Z-Stick is plugged into a gateway or a computer, unplug it.
2. Take your Z-Stick to your Doorbell.
3. Press and hold the Action Button on your Z-Stick for 2 seconds then let go. The LED should begin to blink rapidly on your Z-Stick.
4. Press the Action Button on your Doorbell.
5. If your Doorbell has been successfully removed from your network, its Network LED will start to blink. If the removal was unsuccessful, the Network LED will not blink.
6. Press the Action Button on the Z-Stick to take it out of removal mode.

If you're using a Minimote:



1. Take your Minimote to your Doorbell.
2. Press the Remove Button on your Minimote.
3. Press the Action Button on your Doorbell.
4. If your Doorbell has been successfully removed from your network, its Network LED on your Doorbell will start to blink. If the removal was unsuccessful, the Network LED will not blink.
5. Press any button on your Minimote to take it out of removal mode.

● **Reset your Doorbell.**

If your primary controller is missing or inoperable, you may wish to reset all of your Doorbell's settings to their factory defaults. To do this, press and hold the Action Button for 20 seconds and then release it. Your Doorbell will now be reset to its original settings, and the Network LED will be solid for 2 seconds and then start slow blinking as a confirmation.

● **Low battery checking for Wireless Button.**

If you find the Red LED on the Doorbell is blinking when you press the Wireless Button. You will need to replace the CR2450 battery with a new battery, as the Red LED indicates low battery power.

④ **Technical specifications.**

Model Number: ZW056.
 Alarm Power: 2.5W.
 Max Standby Power: 0.5W.
 Max Volume: 80dB.
 Operating Temperature: -10°C to 45°C for Doorbell, -20°C to 55°C for Wireless Button.
 Storage Temperature: -20°C to 70°C.
 Wireless Button's Battery: Lithium cell CR2450 3 volt battery.
 Supported Audio Formats: MP3 within 320 Kbps or WAV at 1411 Kbps.
 Operating Distance: Up to 500 feet/150 metres outdoors in normal mode or 300 feet/100 metres outdoors in ringtone mode.

AC Input:

Version	Input (Standby Power)	Working band
AU	230V 50Hz, Max:30mA	921.42MHz
BR	220V 60Hz, Max:25mA	921.42MHz
CN	220V 50Hz, Max:25mA	868.40MHz
EU	230V 50Hz, Max:25mA	868.42MHz
IL	230V 50Hz, Max:25mA	916.02MHz
IN	230V 50Hz, Max:25mA	865.20MHz
UK	230V 50Hz, Max:25mA	868.42MHz
US	120V 60Hz, Max:20mA	908.42MHz

⑤ **Warranty.**

Aeon Labs warrants to the original purchaser of Products that for the Warranty Period (as defined below), the Products will be free from material defects in materials and workmanship. The foregoing warranty is subject to the proper installation, operation and maintenance of the Products in accordance with installation instructions and the operating manual supplied to Customer. Warranty claims must be made by Customer in writing within thirty (30) days of the manifestation of a problem. Aeon Labs' sole obligation under the foregoing warranty is, at Aeon Labs' option, to repair, replace or correct any such defect that was present at the time of delivery, or to remove the Products and to refund the purchase price to Customer.

The "Warranty Period" begins on the date the Products is delivered and continues for 12 months.

Any repairs under this warranty must be conducted by an authorized Aeon Labs service representative and under Aeon Labs' RMA policy. Any repairs conducted by unauthorized persons shall void this warranty.

Excluded from the warranty are problems due to accidents, acts of God, civil or military authority, civil disturbance, war, strikes, fires, other catastrophes, misuse, misapplication, storage damage, negligence, electrical power problems, or modification to the Products or its components.

Aeon Labs does not authorize any person or party to assume or create for it any other obligation or liability in connection with the Products except as set forth herein.

Aeon Labs will pass on to Customer all manufacturers' Material warranties to the extent that they are transferable, but will not independently warrant any Material.

Customer must prepay shipping and transportation charges for returned Products, and insure the shipment or accept the risk of loss or damage during such shipment and transportation. Aeon Labs will ship the repaired or replacement products to Customer freight prepaid.

Customer shall indemnify, defend, and hold Aeon Labs and Aeon Labs' affiliates, shareholders, directors, officers, employees, contractors, agents and other representatives harmless from all demands, claims, actions, causes of action, proceedings, suits, assessments, losses, damages, liabilities, settlements, judgments, fines, penalties, interest, costs and expenses (including fees and disbursements of counsel) of every kind (i) based upon personal injury or death or injury to property to the extent any of the foregoing is proximately caused either by a defective product (including strict liability in tort) or by the negligent or willful acts or omissions of Customer or its officers, employees, subcontractors or agents, and/or (ii) arising from or relating to any actual or alleged infringement or misappropriation of any patent, trademark, mask work, copyright, trade secret or any actual or alleged violation of any other intellectual property rights arising from or in connection with the products, except to the extent that such infringement exists as a result of Aeon Labs' manufacturing processes.

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⚡ **FCC NOTICE (for USA)**

THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT.SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

STORE INDOORS WHEN NOT IN USE. SUITABLE FOR DRY LOCATIONS. DO NOT IMMERSE IN WATER. NOT FOR USE WHERE DIRECTLY EXPOSED TO WATER.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1 This device may not cause harmful interference, and
- 2 This device must accept any interference received, including interference that may cause undesired operation. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
 - Increase the separation between the equipment and receiver.
 - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

⚡ **Warning**

Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities.
 Contact your local government for information regarding the collection systems available.

⚡ **Certifications (regional):**



Z-Wave and Z-Wave Plus are registered trademarks of Sigma Designs and its subsidiaries in the United States and other countries



Version:501005600002-AA

www.aeotec.com

Association information

5.2 Association Command Class

The Doorbell supports 2 association groups and can add max 5 nodes for each group.

Association Group	Nodes	Send Mode	Send commands
Group 1	[1,5]	Single Cast	When the state of Doorbell (trigger to turn on/off the ringtone) is changed: 1, Set Configuration parameter 80 to 0: Reserved (Default). 2, Set Configuration parameter 80 to 1: Send Hail CC. 3, Set Configuration parameter 80 to 2: Send the Basic Report.
Group 2	[1,5]	Single Cast	Forward the Basic Set or Switch Binary Set to associated nodes in Group 2 when the Doorbell receives the Basic Set or Switch Binary Set commands from the primary controller.

5.3 Association Group Info Command Class

5.3.1 Association Group Info Report Command Class

Profile: General: NA (Profile MSB=0, Profile LSB=0)

5.3.2 Association Group Name Report Command Class

Group 1: Lifeline

Group 2: Transmit

Configuration parameters information

Parameter Number	Description	Default Value	Size
2	Set the repetitions of playing doorbell ringtone. Value=1 to 100, the range of repetition is 1 to 100. Value =0, ignore. Note: If the time of playing doorbell ringtone is more than 20s, the volume of ringtone will be reduced to silence no matter how many repetitions of doorbell ringtone are set.	2	1
5	Set the default doorbell ringtone. Value=1 to 100, specify the ringtone as default. Value=others, ignore.	1	1
6	Select a ringtone to play. Value=0, stop playing. Value=1 to 100, play the specified ringtone. Value=other, ignore.	0	1
7	Control items: Value=1, Play Value=2, Stop Value=3, Pause Value=4, Next Value=5, Previous Other, ignore	0	1
8	Set the volume of ringtone. Value=0 to10, set the volume level of 0 to 10. Value=other, ignore	10	1
10	Define functions of "Button -" and "Button+". Value=0, "Button -" is Previous, "Button+" is Next. Value=1, Swap functions of the two buttons.	0	1
11	Define functions of "Button -" and "Button+"when short pressing and long pressing it. Value=0, short pressing changes volume, long pressing changes default ringtone. Value=1, long pressing changes volume, short pressing changes default ringtone.	0	1

42	Get the Wireless Button's battery status. Value=0x00, Normal battery level. Value=0xFF, Low battery level. Set Value=0x00, Cancel low battery alarm report.	0	1
80	Enable/disable to send notification to associated devices (Association Group 1) when the state of Doorbell is changed (0=Nothing, 1=Hail CC, 2=Basic report CC).	0	1
81	Enable/disable to send notification to associated devices (Association Group 1) when the Wireless Button's battery is in low battery state	1	1
241	Pair the Wireless Button with Doorbell. Value=0x55555555, Start the Wireless Button pairing mode and the blue Led will blink slowly, short press the Wireless Button once, if the blue Led change to be solid, which means the pairing is successful. Otherwise, repeat the steps. It will automatically exit the pairing mode after 8s if there is no pressing action of the Wireless Button. Note: You can send this configuration Get CC to ask the pairing result: If configuration report value=0x00000000, which means the pairing is failed. If configuration report value =0xFFFFFFFF, which means the pairing is successful.	0	4
252	Enable/disable Lock Configuration (0 =disable, 1 = enable).	0	1
255	1. Size=0x01, Configuration Value=0x00: Reset configuration settings. 2. Size=0x04, Configuration Value=0x55555555: Reset to factory default settings.	0	1