

Aeotec
LED Bulb 6: Multi-Colour
ZWA002-A / ZWA002-C



Used in this guide.



Important safety information.

Please read this and the online guide(s) at: <http://support.aeotec.com/ledbulb6> carefully. Failure to follow the recommendations set forth by Aeotec Limited may be dangerous or cause a violation of the law. The manufacturer, importer, distributor, and / or reseller will not be held responsible for any loss or damage resulting from not following any instructions in this guide or in other materials.

LED Bulb 6 can be used in dry locations only. Do not use in damp, moist, and / or wet locations.

Quick start.

The following will step you through installing LED Bulb 6 and connecting it to your Z-Wave network.

1. Select a socket for LED Bulb 6. Turn off the corresponding light switch or power circuit if no switch is available.
2. If present, remove the socket's existing light bulb.
3. Insert LED Bulb 6 into the chosen socket.
4. Set your Z-Wave gateway into its 'add device' mode in order to connect LED Bulb 6 to your Z-Wave system. Refer to the gateway's manual if you are unsure of how to perform this step.
5. Turn on the wall switch or the power circuit. LED Bulb 6 turns solid yellow for a short period of time, then blinks white and then green for 3 seconds to indicate

that it successfully joined your Z-Wave network. Should LED Bulb 6 blink white and then red, it indicates it was unable to join your Z-Wave network; repeat the above steps and please refer to your digital user manual or contact us for further support if needed.

LED Bulb 6 is now a part of your Z-Wave home control system. LED Bulb 6 will send its status to the lifeline group when the state of the LED Bulb is changed. You can configure it and its automations via your Z-Wave system; please refer to your software's user guide for precise instructions. If your gateway incorrectly identifies LED Bulb 6 as a different product, please refer to our digital user manual and / or contact us or your gateway maker for further assistance.

LED Bulb 6 will be controllable via Z-Wave. To ensure that it remains part of your network and controllable, please leave any connected light switch in the on position. Cutting power to LED Bulb 6 will disable its operation.

Resetting

Please use this procedure only when the network primary controller is missing or otherwise inoperable. Led bulb re-power 6 times (between 0.5-2 seconds each time). If the 6th power on, the led bulb flashes twice, which means that the resetting is successful.

Get help & learn more.

Should you encounter any problem with LED Bulb 6, visit <http://support.aeotec.com/ledbulb6> or contact our support team via aeotec.com/contact. You can also learn more about LED Bulb 6 features, configuration options, and technical specifications at the link.

Gateway compatibility.

To see if this device is known to be compatible with your Z-Wave gateway, please refer to aeotec.com/z-wave-gateways

FCC Notice.

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.

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications or change to this equipment. Such modifications or change could void the user's authority to operate the equipment. 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.
- This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

Declaration of Conformity.

Aeotec Limited declares that LED Bulb 6 is in compliance with the essential requirements and other relevant provisions of RED 2014/53/EU, RoHS 2011/65/EU, ENEC2012/2008, EN62361:2012 and EU Regulation 874/2012. The full text of the declaration is available from support@aeotec.com/ledbulb6/doc

Maximum RF output power: 1.48mW; frequency range 869.7-870.2MHz.

RF Exposure Statement.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 30 cm between the radiator and your body.

Specifications.

Z-Wave devices operate between 868.40-869.85 MHz for EU, 908.40-8.916.00 MHz for US. Full information on device specifications and certifications at support@aeotec.com/ledbulb6/spec

California Proposition 65.

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. Use only for intended purposes. Do not use for other purposes including, but not limited to, the consumption of food and drinks.

3. All functions of each trigger

LED Bulb 6 will use in the Z-Wave network	
Trigger	Description
power on/off	Add the indication 1. Blinking the led bulb has been included outside the network. 2. Triggered by OFF ->ON (between 3-5 seconds each time). 3. LED solid yellow color (about 1000) during the pairing/removed (5-10 seconds). • Failure: Blinks between 120% White and Red (about 1000) color for 3 seconds (or a color of 200% per flash), Once 3 seconds have passed, the LED should return to a Warm White LED at 100%. • Success: Blinks between 120% White and Green (about 1000) color for 3 seconds (or a color of 200% per flash). Once 3 seconds have passed, the LED should return to a Warm White LED at 100%.
power leave	1. Blinking the led bulb has been included outside the network. 2. Triggered about 1000 -> ON -> OFF -> ON (about 10-12 seconds each time). 3. Led color cycle: red -> orange -> yellow -> green -> blue -> purple -> purple.

Trigger	Description
press one	1. when the color scale arrives at the color pink/red to select, trigger off of 2. when the color scale arrives at the color yellow to select
press two	1. the slider color will stop at a color halfway off the color scale 2. focus on the color red that were indicated the network 3. when the color scale arrives at the color yellow to select 2 seconds after 4. the color scale will stop at a color purple or green (a red/purple or purple)
press three times	Answer for students 1. Assuming all bulbs were address connected 2. Triggering off $200W \times 100W \times 100W \times 100W \times 100W$ (between 0.2 seconds and 0.4 seconds) 3. When the color scale arrives at the color yellow to select 4. LED 164 Purple/White/Red (CM45522) during the arming process. 5. Switch 6 (2 seconds) 6. Switch 7 (2 seconds) 7. Switch 8 (2 seconds) 8. Switch 9 (2 seconds) 9. Switch 10 (2 seconds) 10. Switch 11 (2 seconds) 11. Switch 12 (2 seconds) 12. Switch 13 (2 seconds) 13. Switch 14 (2 seconds) 14. Switch 15 (2 seconds) 15. Switch 16 (2 seconds) 16. Switch 17 (2 seconds) 17. Switch 18 (2 seconds) 18. Switch 19 (2 seconds) 19. Switch 20 (2 seconds) 20. Switch 21 (2 seconds) 21. Switch 22 (2 seconds) 22. Switch 23 (2 seconds) 23. Switch 24 (2 seconds) 24. Switch 25 (2 seconds) 25. Switch 26 (2 seconds) 26. Switch 27 (2 seconds) 27. Switch 28 (2 seconds) 28. Switch 29 (2 seconds) 29. Switch 30 (2 seconds) 30. Switch 31 (2 seconds) 31. 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Number	Description Size	Default Value	Size
0x01	Use custom LEDs for LED structures. 0 - Disable custom LEDs. 1 - Blink custom LEDs. 2 - Randomized custom LEDs. 3 - Customizable Double-Stroke custom LEDs.	0	3
0x02	0 - Disable. 1 - Enable. 2 - Switch. 3 - Ignore.	0	3
0x03	4 - The size of change to next color in Custom Mode. Value: "Value" Value Range: 5 - 3600000 (0.5 - 600000000)	0x00000000	4
0x04	0 - Use color that LED Bulb follows in (Blink Mode) Mode. 1 - Use color that LED Bulb follows in (Switch Mode) Mode.	0x00000000	4
0x05	Remain on when dimming using MultiSwitch Switch-CC or 100Hz. Value: "Enable/Disable"	0x01	3
0x06	Use range to auto-adjust to calibration device. 0 - Group (Leave the state of LED Bulb is changed in Group). 1 - No Group (Report).	1	3

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Changing time		Scenario
1000ms	Midnight Switch V1 CC would label 1000ms to 1ms from 0 to 100% and vice versa	
100ms	Midnight Switch V1 CC would label 100ms to 1ms from 0 to 100% and vice versa	
10ms	Midnight Switch V1 CC would label 10ms to 1ms from 0 to 100% and vice versa	
1ms	Midnight Switch V1 CC would label 1ms to 1ms from 0 to 100% and vice versa	

Notes:

- For 1000, it would take 1000 seconds to drive from 0 to 100% and vice versa.
- For 100, it would take 100 seconds to drive from 0 to 100% and vice versa.
- For 10, it would instantly get any drive (the customer sets it to 1).
- For 1 to 7, it would take 0.7 seconds to drive from 0 to 100% and vice versa.

