

LED Strip

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

IMPORTANT!

his product has been fully tested and certified to work with Z-Wave by the Z-Wave Alliance. It is crafted using Z-Wave Plus, the latest device version of Z-Wave. As such, if the product does not work with your gateway, please be sure to check with your gateway manufacturer that they have integrated this device with their gateway for full operation.

) Aeotec by Aeon Labs LED Strip.

Aeotec LED Strip is a multi-coloured LED Strip which allows control (on/off/dim/colour change) via wireless Z-Wave commands.

The LED Strip can also communicate securely via AES 128 wireless Z-Wave commands and supports Over-The-Air (OTA) firmware upgrades.

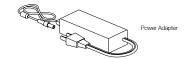
(2) Familiarise yourself with your LED Strip.

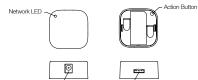
Package Contents:

1. LED Strip Controller (×1) 2. Screws (×2 3. Back Mount Plate (×1) 4. 5 meters LED strip (×1) 5. Power Adapter (×1) 6. Double-Sided Tape (×1)









Power Input

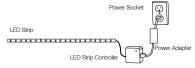
Install your LED Strip.

The installation of your LED Strip has two major steps: the LED Strip Controller and the LED Strip. LED Strip can be installed inside or outside your home, but the LED Strip Controller should only be installed inside your home and should not be installed outdoors in elements such as rain and snow.

1. Plug the LED strip to the LED strip connector of your LEI Strip Controller.

2. Connect the Power Adapter to your LED Strip. 3. Plug the Adapter into an electrical outlet and then the

Network LED on LED Strip Controller will blink slowly to indicate it is ready to be paired to your Z-Wave network. 4. Now press the Action Button to toggle your LED strip on or off to ensure the connections between your LED Strip and its Controller properly connected.



(3) Quick start.

Adding your LED Strip to a Z-Wave network.

You are now able to manually control the LED Strip directly via pressing your LED Strip' Action Button. It is time to add your LED Strip to your Z-Wave network. To set your Z-Wave gateway/controller into pairing mode, please refer to the respective section within your controller instruction manual.

3. If the LED Strip has been successfully added to your Z-Wave network, its Network LED will be solid. If the pairing was unsuccessful, the red LED will be on for 2 seconds and then remain a colourful gradient, repeat the instructions above from step 1.

1. Set your Z-Wave controller into pairing mode.

2. Press the Action Button on the LED Strip.

With your LED Strip now working as a part of your smart home. you'll be able to configure it to indicate different colours from your home control software via setting the RGB value. Please refer to the user manual for your Z-Wave controller/gateway for precise instructions on configuring your LED Strip to your needs.

Removing your LED Strip from a Z-Wave network.

Your LED Strip can be removed from your Z-Wave network at any time. You'll need to use your Z-Wave network's main controller. To set your Z-Wave controller/gateway into removal mode, please refer to the respective section within your Z-Wave controller instruction manual.

1. Set your Z-Wave controller into device removal mode. 2. Press the Action Button on the LED Strip.

3. If the LED Strip has been successfully removed from your Z-Wave network, its Network LED will remain colourful gradient. If the removal was unsuccessful, the Network LED will still be solid, repeat the instructions above from step 1.

Advanced functions.

Colour Display Cycle Configuration.

Parameter 37 [4 byte] will cycle the colour displayed by LED Strip into different modes:

	7	6	5	4	3	2	1	0
Value 1 (MSB)	Colour Transition Style			our Cha eed Op		Colour Display Cycle		
Value 2		Brightness						
Value 3		Cycle Count						
Value 4 (LSB)	Time Base of Coulor Change Speed			Colou	r Char	nge Sp	eed Le	vel

Colour Display Cycle (4 bits)

The Colour Display Cycle field can have the following values corresponding to 4 different modes:

Colour Display Cycle	Description
0	Inactive (keep the current configuration values)
1	Rainbow Mode(red, orange, yellow, green, cyan, blue, violet)
2	Multi Colour Mode(colours cycle between selected colours)
3	Random Mode.
4	Single Colour Mode.
5 to15	Reserved.

Colour Transition Style (2 bits)

The following values correspond to 2 different transition styles between colours:

Colour Transition Style	Description
0	Smooth Colour Transition.
1	Fade Out Fade In Transition.

Cycle Count (8 bits)

The Cycle Count is used to define the number of repetitions cycles displayed by your LED Strip in Colour Display Cycle before stopping.

Cycle Count	Description
0	Unlimited.
1 to 254	Total number of repetitions/cycles before stopping.
255	Inactive (keep the current configuration values).

Brightness (8 bits)

Brightness Level	Description
1 to 99	1 = Min level. 99 = Max level.
0 or 255	Inactive (keep the current configuration values).

Time Base of Colour Change Speed (3 bits)

This function would be used when the Colour Transition Style is set to Fade Out/In.

Time Base	Description
0	Time base is 1s.
1	Time base is 10ms.
2	Time base is 100ms.

Colour Change Speed Level (5 bits)

This function would be used when the Colour Transition Style is set to Fade Out/In.

Speed Level	Description
0	Constant speed.
1 to 30	Accelerate/decelerate speed from the level 1
31	Inactive (keep the current configuration value

The table above shows a decimal representation of the settings that can be set on parameter 37.

Parameter 39 [4 byte] can be used to set up to 8 colours to cycle between when LED Strip is in Multi Colour Mode. Colours transition from Colour Index 1-8.

	7	6	5	4	3	2
Value 1 (MSB)			Ind			
Value 2			Ind			
Value 3			Ind			
Value 4 (LSB)			Ind			











Colour Component Id:

ID	1	2	3	4	5	6	7	8
Colour	Red	Orange	Yellow	Green	Cyan	Blue	Violet	Pinkish

Example:

If you set the parameter 39 to 305135616 (0x12300000 in hexadecimal), the colour will be changed from Red to Orange and then Orange to Yellow circularly (Red-Orange-Yellow).

When your Strip is in Single Colour Mode and the Fade Out Fade In transition style, the parameter 39 would be used to set the RGB value.

	7	6	5	4	3	2	1	0	
Value 1 (MSB)	Red valu	Red value							
Value 2	Green v	Green value							
Value 3	Blue val	Blue value							
Value 4 (LSB)	Reserve	Reserved							

When your Bulb is in Random Mode, the parameter 39 would be used to set the random seed, then your bulb will automatically generate random colours to be displayed according to the random seed you set.



Enabling Security Encryption.

In order to take full advantage of all functionality the LED Striv you may want your LED Strip is a security device that uses secure/encrypted message to communicate in your Z-Wave network, so a security enabled controller/gateway is needed.

- 1. Set your Z-Wave controller into pairing mode.
- 2. Press the Action Button on LED Strip Controller 2 times within 1 second

3. If LED Strip has been successfully added to your Z-Wave network, its Network I ED will be solid when you turn Strip

Resetting your LED Strip.

If at some stage, your primary controller is missing or inoperable, you may wish to reset all of your LED Strip's settings to their factory defaults. To do this, press and hold the Action Button for 20 seconds and then release it. Your LED Strip will now be reset to its original settings, and the green LED will be solid for 2 seconds and then remain the colourful gradient status as a confirmation.

5) Technical Specifications.

Model number: 7W121 Power supply: 24V/3A DC Adapter. Max operating power: 72W. Max standby power: 1.2W. Colour temperature: 450 to 650 Kelvin for BGB colour. 3000 to 3500 Kelvin for Warm white, 6500 to 8000 Kelvin for Cool white. Operating temperature: 0 °C to 40 °C/32 °F to 104 °F. Relative humidity: 8% to 80%. Operating distance: Up to 492 feet/150 meters outdoors.

6) Warranty.

If you are in need of any technical support during or subsequent to your products' warranty, please get in touch with our support team via http://aeotec.com/support. The Company you bought this product from has also guaranteed to assist you with any of your support needs, and you can also contact them for accordingly.

This guarantee made by the company who you purchased the product from includes the transfer of Aeon Labs' full warranty to that Company. They've guaranteed that they'll be able to assist you, the Customer, with all technical support and repair needs on our behalf.

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. Th 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'

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This device complies with Part 15 of the ECC 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 1 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):

Version:501012100001-AA



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FCC ID: XBAFT121







