

LED BULB

View the expanded manual:

http://aeotec.com/support

1) Aeotec by Aeon Labs LED Bulb.

Make any light a smart light.

LED Bulb brings the connected light bulb to Z-Wave. Offering the perfect shades of cool and warm light, along with 16 million shades of other coloured light, LED Bulb is the modern light bulb as it should be: connected, controllable and perfectly considered

Familiarise yourself with your LED Bulb.

Your LED Bulb contains all its technology within its silver and white exterior. It has no external buttons.



ADDED WEIGHT OF THE DEVICE MAY CAUSE

INSTABILITY OF A FREE-STANDING PORTABLE THIS DEVICE IS NOT INTENDED FOR USE WITH

SUITABLE FOR USE IN ENCLOSED LUMINAIRES.

it into a lamp holder and adding it to your existing Z-Wave

Quick start. Getting your LED Bulb up and running is as simple as inserting

EMERGENCY EXITS OR NOT FOR EMERGENCY

Using LED Bulb.

network. You'll need to set your Z-Wave hub to accept new products; to do this, please refer to its user manual.



- Toggle off the wall switch into the OFF position.
- 2. Remove any existing light bulb and replace it with LED Bulb.
- Set your Z-Wave gateway to accept new products.
- 4. With LED Bulb in its fitting, wait 2 seconds. Now toggle your wall switch ON, LED Bulb's green LED will blink to indicate that it is looking for a Z-Wave network to connect to.
- 5. After successfully connecting to your network, LED Bulb will illuminate. If a network connection has failed, it will remain

without light.

With your LED Bulb now a part of your smart home, you'll be able to schedule, configure and control it your Z-Wave gateway.

Please refer to the relevant pages of your gateway's user manual for instructions on configuring LED Bulb to your needs.

Please note that the wall switch controlling LED Bulb needs to be left in the on position in order for LED Bulb to function within vour Z-Wave network. In the off position, LED Bulb will not be able to draw power and will not be remotely controllable nor be able to serve as a Z-Wave repeater.

Advanced functions.

Manually changing LED Bulb's colour.

orange, vellow, green, cvan, blue and violet,

LED Bulb can fill your room with multiple shades of white and an additional 16 million different colours. It's possible to manually select some of these without the use of your Z-Wave gateway.

- 1. Keep the wall switch in the "ON" state and then toggle LED Bulb off, on, off, on in quick succession via its wall switch. LED Bulb has now entered colour cycle mode and will cycle through the following colours: warm white, cold white, red,
- 2. When the colour cycle arrives at the colour you'd like to select, toggle off LED Bulb via the wall switch. The visible

colour will be set as your bulb's default.

before changing to red for 2 seconds.

1. Keep the wall switch in the "ON" state.

Set your Z-Wave gateway into pairing mode.

Bulb to default factory settings.

Security inclusion.

Removing LED Bulb from a Z-Wave network.

Your LED Bulb can be removed from your Z-Wave network at any time using your Z-Wave gateway. To set your gateway into removal mode, please refer to the respective section of its user manual.

4. LED Bulb should now be removed from your 7-Wave

network. To confirm successful removal its colour will change

to orange for 2 seconds before changing to white. If removal

was unsuccessful, LED Bulb will blink orange for 3 seconds

Removing LED Bulb from your 7-Wave network will reset LED

- 1. Set your Z-Wave gateway into device removal mode.
- 2. Keep the wall switch in the "ON" state. You may wish to manually configure LED Bulb via Z-Wave 3. Toggle LED Bulb's wall switch off, on, off, on, off, on in fast command classes through your gateway. What follows is a list

of the associated information.

Bulb into different modes:

Manual configuration.

Colour Display Cycle Configuration. Parameter 37 [4 byte] will cycle the colour displayed by LED

3. Toggle the wall switch off, on, off, on, off, on, The blue LED

4. If LED Bulb has been successfully added to your Z-Wave

network, its RGB LED will be solid when you turn LED Bulb

will blink to indicate the Bulb is entering into secure pairing

allo il ito dilioro il rifodoci									
	7	6	5	4	3	2	1	0	
Value 1 (MSB)				Colour Change Speed Option			Colour Displa Cycle		
Value 2	Brightness								
Value 3	Cycle Count								
Value 4 (LSB)	Time Base of Coulor Change Speed			Colour Change Speed Level					

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 to 15 Reserved.

Colour Transition Style (2 bits) The following values correspond to 2 different transition styles

tween color	irs:
Colour ansition 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 Bulb in Colour Display Cycle

e stoppin	g
le Count	Description
0	Unlimited.
to 254	Total number of repetitions/cycles before stopping.
	Inactive (keep the current configuration values)Inactive (keep the current configuration values).

ess (8	bits)
ss Level	Description
99	1 = Min level. 99 = Max level.

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

ade Out/In.					
Base	Description				
	Time base is 1s.				
	Time base is 10ms.				
	Time base is 100ms.				

This function would be used when the Colour Transition Style is

Colour Change Speed Level (5 bits)

set to Fade Out/In.

_evel	Description
	Constant speed.
30	Accelerate/decelerate speed from the level 1 to 30.
	Inactive (keep the current configuration values).

cycle between when LED Bulb is in Multi Colour Mode. Colours

	7	6	5	4	3	2	1	
SB)		Index	Index 2					
		Index		Inde	ex 4			
		Index		Inde	ex 6			
SB)			Inde	ex 8				

Colour Component Id:

Value 4 (LSB)

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

transition from Colour Index 1-8.

2 1 0

Value 3

Value 2

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

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 Bulb 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	Je St						
Value 2	Green v	alue						
Value 3	Blue val	ue						
Value 4 (LSB)	Reserve	d						

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.

	7	6	5	4	3	2	1	
Value 1 (MSB)	Randon	n seed va	lue					
Value 2								
Value 3								
Value 4 (LSB)	1							

Technical specifications.

Model number: 7W098.

Bulb holder type: E26 for USA version, E27/B22 for EU/AU

Max operating power: 9W. Max brightness: 750 lumens. Rated colour temperature: 5000K.

Useful life: 25000 to 30000 hours.

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.

AC Input:

(7) 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

Version Input (Standby Power) Working band

230V 50Hz, Max; 0,7W

220V 60Hz, Max; 0.7W

220V 50Hz, Max: 0.7W

230V 50Hz, Max; 0.7W

230V 50Hz, Max: 0.7W

230V 50Hz, Max: 0.7W

230V 50Hz, Max; 0.7W

US 120V 60Hz, Max: 0.5W

this product from has also guaranteed to assist you with any of your support needs, and you can also contact them for

916.02MHz

865.20MHz

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. 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 3 years.

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 I abs will pass on to Customer all manufacturers' Material warranties to the extent that they are transferable, but will not

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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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IN LIFU OF ALL OTHER INDEMNITIES OR WARRANTIES, WHETHER

EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF

MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

FCC NOTICE (for USA) THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY BADIO OR TV INTERFERENCE CALISED BY LINALITHORIZED 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

This device complies with Part 15 of the ECC Rules Operation

is subject to the following two conditions: This device may not cause harmful interference, and

 Reorient or relocate the receiving antenna. · Increase the separation between the equipment and

from that to which the receiver is connected.

Connect the equipment into an outlet on a circuit different

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:

CONFORMS TO UL STD,1993

waste, use separate collection facilities.

collection systems available.

Certifications (regional):

for help.

CERTIFIED TO CSA STD.C22.2 NO.1993-0

Version:501009800004-AB

FCC ID: XBAFT098

Consult the dealer or an experienced radio/TV technician

Do not dispose of electrical appliances as unsorted municipal

Contact your local government for information regarding the

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in the United States and other countries

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