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Ilumin by Inovelli Tunable White Smart Bulb LZW41 Manual

Contents

Ilumin by Inovelli

Tunable White Smart Bulb

SKU: LZW41

Quickstart

This is a
secure
Light Dimmer
for
U.S. / **Canada** / **Mexico**.

To run this device please connect it to your mains power supply.

Important safety information

Please read this manual carefully. Failure to follow the recommendations in this manual may be dangerous or may violate the law.
The manufacturer, importer, distributor and seller shall not be liable for any loss or damage resulting from failure to comply with the instructions in this manual or any other material.
Use this equipment only for its intended purpose. Follow the disposal instructions.

Do not dispose of electronic equipment or batteries in a fire or near open heat sources.

What is Z-Wave?

Z-Wave is the international wireless protocol for communication in the Smart Home. This device is suited for use in the region mentioned in the Quickstart section.

Z-Wave ensures a reliable communication by reconfirming every message (**two-way communication**) and every mains powered node can act as a repeater for other nodes (**meshed network**) in case the receiver is not in direct wireless range of the transmitter.

This device and every other certified Z-Wave device can be **used together with any other certified Z-Wave device regardless of brand and origin** as long as both are suited for the same frequency range.

If a device supports **secure communication** it will communicate with other devices secure as long as this device provides the same or a higher level of security. Otherwise it will automatically turn into a lower level of security to maintain backward compatibility.

For more information about Z-Wave technology, devices, white papers etc. please refer to www.z-wave.info.

Product Description

With 806 lumens, tunable white, and smooth dimming, this bulb has it all. Best part? It's powered by Z-Wave Plus technology. Imagine walking into a room, tapping a switch (hopefully Inovelli) and your ilumin lights come on to a beautiful movie scene. Or as you're winding down for the night, switch from cool white to warm and gradually dim off the lights as you drift to sleep. These are some of the many things you can do with smart bulbs and we're excited to be able to share them with you.

Prepare for Installation / Reset

Please read the user manual before installing the product.

In order to include (add) a Z-Wave device to a network it **must be in factory default state.** Please make sure to reset the device into factory default. You can do this by performing an Exclusion operation as described below in the manual. Every Z-Wave controller is able to perform this operation however it is recommended to use the primary controller of the previous network to make sure the very device is excluded properly from this network.

Safety Warning for Mains Powered Devices

ATTENTION: only authorized technicians under consideration of the country-specific installation guidelines/norms may do works with mains power. Prior to the assembly of the product, the voltage network has to be switched off and ensured against re-switching.

Inclusion/Exclusion

On factory default the device does not belong to any Z-Wave network. The device needs to be **added to an existing wireless network** to communicate with the devices of this network. This process is called **Inclusion**.

Devices can also be removed from a network. This process is called **Exclusion**. Both processes are initiated by the primary controller of the Z-Wave network. This controller is turned into exclusion respective inclusion mode. Inclusion and Exclusion is then performed doing a special manual action right on the device.

Quick trouble shooting

Here are a few hints for network installation if things dont work as expected.

1. Make sure a device is in factory reset state before including. In doubt exclude before include.

2. If inclusion still fails, check if both devices use the same frequency.

3. Remove all dead devices from associations. Otherwise you will see severe delays.

4. Never use sleeping battery devices without a central controller.

5. Dont poll FLIRS devices.

6. Make sure to have enough mains powered device to benefit from the meshing

Association – one device controls an other device

Z-Wave devices control other Z-Wave devices. The relationship between one device
controlling another device is called association. In order to control a different
device, the controlling device needs to maintain a list of devices that will receive
controlling commands. These lists are called association groups and they are always
related to certain events (e.g. button pressed, sensor triggers, …). In case
the event happens all devices stored in the respective association group will
receive the same wireless command wireless command, typically a 'Basic Set' Command.

Association Groups:

Group NumberMaximum NodesDescription

| 1 | 1 | 1. When the state of the LED Bulb is changed: a) Set Configuration parameter 50 to 0: Nothing. b) Set Configuration parameter 50 to 1: Sending Switch Multilevel Report. 2. Device Reset Locally. |

Configuration Parameters

Z-Wave products are supposed to work out of the box after inclusion, however
certain configuration can adapt the function better to user needs or unlock further
enhanced features.

IMPORTANT: Controllers may only allow configuring
signed values. In order to set values in the range 128 … 255 the value sent in
the application shall be the desired value minus 256. For example: To set a
parameter to 200â€ˆit may be needed to set a value of 200 minus 256 = minus 56.
In case of a two byte value the same logic applies: Values greater than 32768 may
needed to be given as negative values too.

Parameter 2: Memory Function

This parameter will determine how your bulb behaves after power is restored to it from an outage.
Size: 1 Byte, Default Value: 0

SettingDescription

0	Remembers Last State
1	Bulb turns ON after power outage
2	Bulb turns OFF after power outage

Parameter 51: Color Adjustment (Warm White)

This parameter adjusts the bulb along the warm-white spectrum.
Size: 2 Byte, Default Value: 1387

SettingDescription

1387 – 4999	Changes the Kelvin from 2700k (1387) to 4999k (4999)

Parameter 52: Color Adjustment (Cool White)

This parameter adjusts the bulb along the cool-white spectrum.
Size: 2 Byte, Default Value: 5000

SettingDescription

5000 – 6500	Changes the Kelvin from 5000k (5000) to 6500k (6500)

Technical Data

Hardware Platform	ZM5101
Device Type	Light Dimmer Switch
Network Operation	Always On Slave
Firmware Version	HW: 255 FW: 2.24
Z-Wave Version	6.51.09
Certification ID	ZC10-19086719
Z-Wave Product Id	0x031E.0x0006.0x0001
Firmware Updatable	Updatable by Manufacturer
Frequency	XXfrequency
Maximum transmission power	XXantenna

Supported Command Classes

- Association Grp Info
- Association V2
- Basic
- Configuration
- Device Reset Locally
- Firmware Update Md V2
- Manufacturer Specific V2
- Powerlevel
- Security
- Switch All
- Switch Color
- Switch Multilevel V2
- Version V2
- Zwaveplus Info V2

Explanation of Z-Wave specific terms

- **Controller** — is a Z-Wave device with capabilities to manage the network. Controllers are typically Gateways, Remote Controls or battery operated wall controllers.
- **Slave** — is a Z-Wave device without capabilities to manage the network. Slaves can be sensors, actuators and even remote controls.
- **Primary Controller** — is the central organizer of the network. It must be a controller. There can be only one primary controller in a Z-Wave network.
- **Inclusion** — is the process of adding new Z-Wave devices into a network.
- **Exclusion** — is the process of removing Z-Wave devices from the network.
- **Association** — is a control relationship between a controlling device and a controlled device.
- **Wakeup Notification** — is a special wireless message issued by a Z-Wave device to announces that is able to communicate.
- **Node Information Frame** — is a special wireless message issued by a Z-Wave device to announce its capabilities and functions.