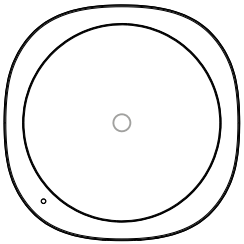


OPERATING MANUAL

SCENE CONTROLLER

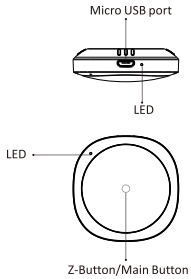
HKZW-SCN01-V1.0

The Scene Controller is a wireless, portable and rechargeable scene switch. It can control a Z-Wave device, such as smart plug, smart dimmer with a Z-Wave gateway. You can also activate a scene like sleep scene, movie scene and entertainment scene with it.

The features list:
(1) Z-Wave Plus certified for wide compatibility (500 serials product).
(2) Support remote control anywhere and anytime.
(3) The battery is rechargeable.
(4) The battery will run for half a year per single charging.
(5) Support low battery alarm with a buzzer.
(6) Support communication failure alarm with a buzzer.
(7) Support firmware OTA.

Ⅰ. GENERAL INFORMATION ABOUT SCENE CONTROLLER

1. Product layout



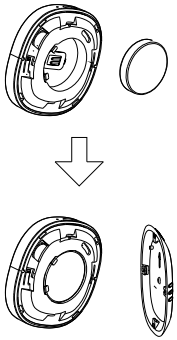
2. Specifications

Power supply:	Single LIR2450 3.6V Battery
Storage environment:	-10~50℃ 0%~85%
Operational temperature:	0~40℃
Radio protocol:	Z-Wave
Radio frequency:	908.42MHz
Range:	More than 150m outdoors About 40m indoors (depending on building materials)
Dimensions:	50*50*16mm
Working current:	36mA
Standby current:	3uA

Ⅱ. INSTALLATION

Open the cover:
Open the cover, as shown below.

Insert your battery:
Insert your battery and close the cover, as shown below.



Ⅲ. Z-WAVE NETWORK INCLUSION

Scene Controller can be included into the Z-Wave network manually via Z-button.

To include Scene Controller into a Z-Wave network:
(1) Insert the LIR2450 battery.
(2) Set the Z-Wave network main controller into learning mode (see Z-Wave network controller operating manual).
(3) Triple click the Z-button.
(4) If the inclusion is successful, the LED will blink in blue less than for 5 seconds and then keep on for 15 seconds.

TIP:
Scene Controller can be included as a security device, by pressing and holding the Z-button for 3 seconds instead of clicking, if the inclusion is successful the LED will blink in green for less than 5 seconds and then keep on for 15 seconds.

Ⅳ. REMOVING FROM Z-WAVE NETWORK

To remove the Scene Controller from the Z-Wave network:
(1) Insert the LIR2450 battery.
(2) Set the Z-Wave network main controller into learning mode (see Z-Wave controller operating manual).
(3) Triple click the Z-button, if the exclusion is successful, LED will blink in orange for less than 5 seconds and then keep on for 3 seconds.

Ⅴ. RESET SCENE CONTROLLER

Reset procedure will clear the Scene Controller's memory, including Z-Wave network information.

To reset Scene Controller:
Pressing and holding the Z-button for 20 seconds. Release the button after the 20th seconds, LED will keep in yellow for 3 seconds. Scene Controller will be reset to factory defaults if you short press the button within these 3 seconds.

Ⅵ. LOW BATTERY ALARM FUNCTION

If the battery level of the Scene Controller is less than 20%, the Scene Controller will sound 3 times when the button is pressed.

Ⅶ. COMMUNICATION FAILURE ALARM FUNCTION

The Scene Controller will sound one time when the communication between the Scene Controller and any one of the controlled devices is failed.

Ⅷ. TESTING Z-WAVE NETWORK RANGE

Scene Controller's LED indicator can signal its communication quality with the Z-Wave main controller.

To start testing:
Pressing and holding the Z-button for 11 to 15 seconds, the LED will keep on in purple for 3 seconds, it will enter testing mode if you short press the Z-button during these 3 seconds.
Blink in green –Scene Controller establish a direct communication with the main controller, and still under checking.
Keep green – The green light should last about 2 seconds, which means the direct communication is stable.
Blink in orange –Scene Controller can communicate with the main controller in intermediate radio transmit power level, and still under checking.
Keep orange – The communication quality is moderate.
Keep Red – The communication is failed.

TIP:
1. This function works only when Scene Controller has been included into a Z-Wave network.
2. Click the Z button to exit the test.

Ⅸ. BATTERY CHARGING

Scene Controller has an internal rechargeable battery that will run for half a year under normal use condition. If the battery level is less than 20%, this will activate the low battery level function, which mean you need to charge the battery.
The charger's output should be a micro USB terminal with the specification of output DC 5V.
The LED nearby the micro USB port will keep on in red during the changing, and it will turn to green if the charging is finished.

Ⅹ. ASSOCIATION

Association allows the Scene Controller to control another Z-Wave device directly, such as Smart Switch, Smart Dimmer, etc.

Scene Controller supports three association groupings, every group relates to a specific button action. View details in the follow section of "Ⅻ. BUTTON FUNCTION".
Group 1 allows Scene Controller to send the central scene notification command.
Group 2 allows Scene Controller to send the basic set command.
Group 3 allows Scene Controller to send the multilevel start level change and multilevel stop level change command.

TIP:
1. The max number of associated nodes of all these 3 groups is 5.
2. Association allows for direct transmission of control command between devices and takes place without the participation of the main controller.

Ⅺ. WAKE UP

Wake up interval:
Available settings: 0
Default setting: 0

NOTE:
The interval time must be set to 0. The wake up notification will not wake the Scene Controller, only the action of the button can you wake the Scene Controller.

Ⅻ. BUTTON FUNCTION

Scene Controller offers three button action types, including short press, held press and release.

Short press allows Scene Controller to send:
Central scene notification command to the nodes associated with group 1,
Basic set command to the nodes associated with group 2.

Held press (more than 1 second less than 20 seconds) allows Scene Controller to send:
Central scene notification command to the nodes associated with group 1,
Multilevel start level change command to the nodes associated with group 3.

Release allows Scene Controller to send:
Central scene notification command to the nodes associated with group 1,
Multilevel stop level change command to the nodes associated with group 3.

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.

FCC Caution.

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.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: 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.