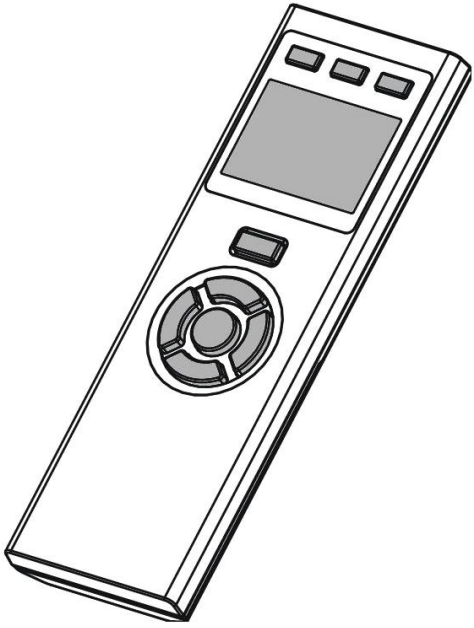


ZRC-100
(Z-Wave Remote Control)

Table of Contents

Introduction 4
Glossary 5
ZRC-100 Operations 6
Configurations 7
Description of Function Keys 7
Add/Delete Devices 8
Device Control 11
Scene Setup 12
Scene Control 15
Comfort Control 16
Sensor Information 17
Device Configure 17
Sensor Configure 19
Comfort / Sensor Configure 22
Short Key 24
Z-Wave Advanced Setup 26
Learning Mode 26
Configure Association 28
Change Device Configuration 34
Resetting Your Network 36
System Settings 37
About ZRC-100 39
Z-Wave Network Setup 40
Rediscover Network 40
Re-scan (Rediscover) Devices from network 41
Delete Dead Node from Network 43
Listening Mode 44
Create a Secondary Controller 45
Create a Primary Controller 46
WIRELESS INFORMATION 48
MAINTENANCE 48
FREQUENTLY ASKED QUESTIONS 48
Z-Wave Frequently Asked Questions 48
TECHNICAL SPECIFICATIONS 51
CHECKING THE ACCESSORIES 52

FCC NOTICE 52
WARNINGS 52
CAUTION 53

ZRC-100
(Z-Wave Remote Control)
Operating Instructions

Introduction

The *ZRC-100* is a LCD Z-Wave remote controller (Figure 1) and it can work with Z-Wave enabled devices, support multi-channel, thermostat, secure door lock, binary / multi-level sensor command class and controls their on/off or up/down individually, or via a pre-configured Scene and adjust your room temperature. The ZRC-100 give an intelligent LEDs smart guide and LCD display for all setup procedures and operation. User can setup / operate their Z-Wave devices through the LCD and LEDs UI on ZRC-100. User can enjoy integrated wireless control in anywhere at home.

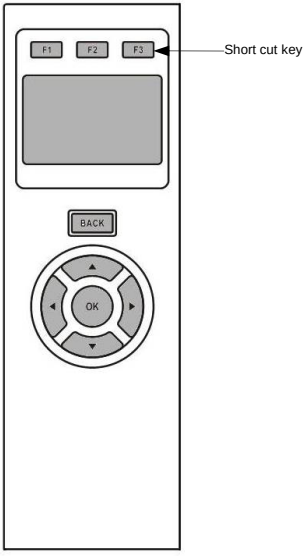


Figure 1 ZRC-100

Glossary

Device or Node	Devices and nodes are all terms to describe an individual Z-Wave device. These are all interchangeable when setting up your Z-Wave network.
Inclusion	Add a Z-Wave device to the network.
Exclusion	Delete a Z-Wave device from the network.
Remove	To take a device out of a group, scene or association group while that device still exists in the same Z-Wave network.
Z-Wave Network	A collection of Z-Wave devices controlled by primary and secondary controllers operating on the same system. A Z-Wave network has its own unique ID code so that controllers not in the network cannot control the system.
Primary Controller	The first controller used to set up your devices and network. Only the Primary Controller can be used to include or delete modules from a network. It is recommended that you mark the primary controller for each network for ease in modifying your network.
Secondary Controller	A controller containing network information about other modules within the network and is used for controlling devices. Secondary controller is created from the Primary Controller and cannot include or delete modules to the network.
Inclusion Controller	A controller containing network information about other modules within the network and is used for controlling devices. Inclusion controller is created from the Primary Controller in a SIS enabled Z-Wave network. Inclusion Controller has the ability to add and remove devices from the network.
Scene	A collection of Z-Wave devices configured to turn to a specific level, setting, mode, or perform an operation. Scenes are usually activated by a controller, timed event, or specific conditions.

ZRC-100 Operations

Welcome to the world of Z-Wave home automation, your ZRC-100 will be able to control all the Z-Wave products around your house. The following section will guide you through the set up processes for your ZRC-100.

Please note that all Z-Wave devices, light switches, dimmers, shutter switches, thermostat and secure door lock made from various vendors are compatible with your ZRC-100 as long as they carry the Z-Wave logo:

(Please carefully read through the following then store the manual for future reference.)

Before using the ZRC-100, please install the batteries:

- 4xAAA batteries are required for operation.
- Remove the battery cover on the back of your remote.
- Check the polarity of the batteries and the "+/-" marks inside the battery compartment.
- Insert the batteries.
- Push the battery cover back in place.

⓵ CAUTION (battery safety)

– Use new batteries of the recommended type and size only.
– Never mix used and new batteries together.
– To avoid chemical leaks, remove batteries from the remote controller if you do not intend to use the remote for an extended period of time.
– Dispose of used batteries properly; do not burn or bury them.

Configurations

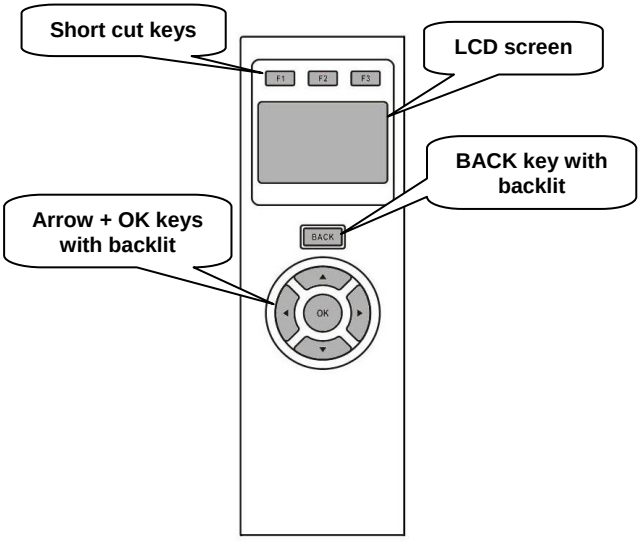


Figure 2 Setup and control keys of ZRC-100

Description of Function Keys

Keys	Functions
F1 F2 F3	Short cut keys for device and scene control or jump to corresponding interface
BACK	Back to previous screen
OK	4-way directional keys for setup and control OK key for confirmation

The ZRC-100 remote can be set up with different concepts such as Scene, Association Group, Primary Controller and Secondary Controller. These concepts are all setup on the LCD of your ZRC-100.

A single Z-Wave network can include 232 nodes. If necessary, more than one network can be bridged to extend the number of nodes further, although this is normally not needed in a residential environment.

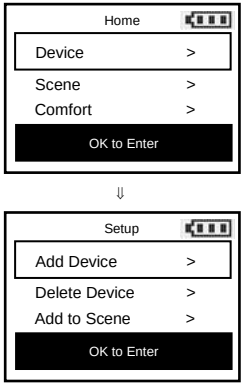
The total number of controllable End-point (EP) / device / sensor is 128 items which is listed on the “Device” and “Sensor” page. ZRC-100 also supports 6 thermostats which are listed on the “Comfort” page. You can control up to 12 scenes (Scene On/Off) with your ZRC-100. Each Scene supports up to 32 Z-Wave devices or End-point (EP).

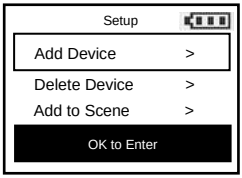
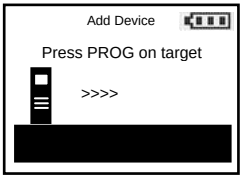
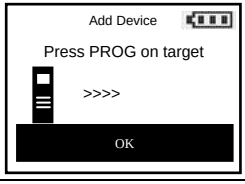
Remark:

- The hard keys are valid if the backlit is turned on and vise versa. User can follow the intelligent LEDs smart guide and LCD display for all setup procedures and operation.
- User can press “BACK” key to go back to the previous page at any setup /operation screen.

Add/Delete Devices

Adding Device to the Network

Step	Setup Key	LCD Indication
1	Press and hold ◀ ▶ keys for 3 seconds under the Home page.	

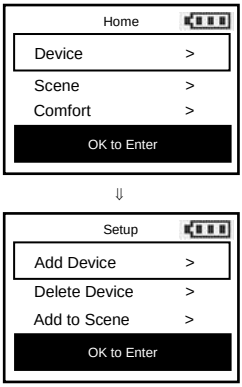
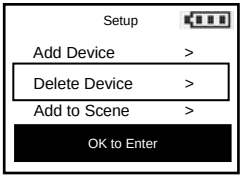
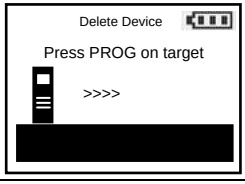
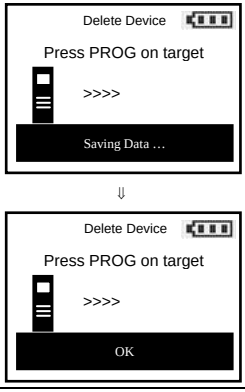
2	Select “Add Device”.	
3	Press OK key to add the device into Z-Wave network.	
4	Press the program button on the target device.	 ⇓ 

Note 1: If you can’t add your Z-Wave device, this device might have been included in another Z-Wave network. In this case, please delete this device following the steps in the [Deleting Device from the Network] section then add this device again.

Note 2: This step can be skipped if the device is already included in the network.

Note 3: If no ACK signal received for more than 60 seconds, the “Add Device” mode will exit automatically.

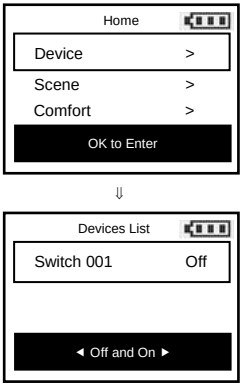
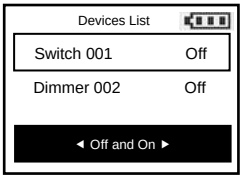
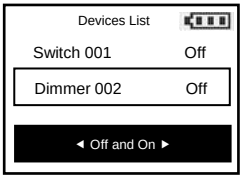
Deleting Device from the Network

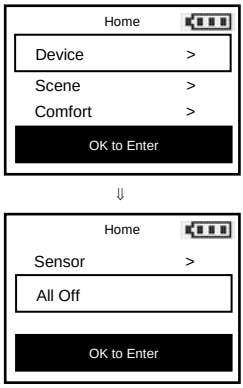
Step	Setup Key	LCD Indication
1	Press and hold ◀ ▶ keys for 3 seconds under the Home page.	
2	Select "Delete Device".	
3	Press OK key to delete the device from Z-Wave network.	
4	Press the program button on the target device.	

Note 1: If no ACK signal received for more than 60 seconds, the "Delete Device" mode will exit automatically.

Device Control

After adding devices to your ZRC-100, you can turn the device on/off or up/down via the corresponding Device Control function.

Step	Setup Key	LCD Indication
1	Select "Device" and press OK key to entry the Device control page under Home page.	
2	For on/off switches, press ▶ key to turn on the device and ◀ key to turn off the device.	
3	To operate dimmer and curtain motors, press and hold the ▶ key to open the curtain or dim up the light. By press and hold the ◀ key you can retract the curtain or dim down the light.	

4	You can turn off all the devices in the network by selecting "All Off" function under Home page.	

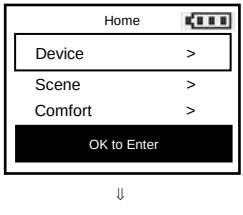
Note 1: The screen will display LOCK /UNLK if this is a secure door lock device.

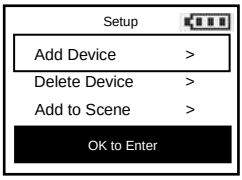
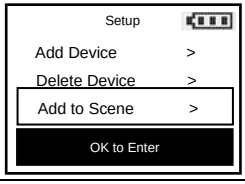
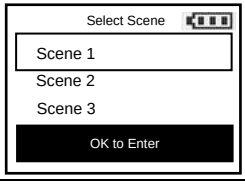
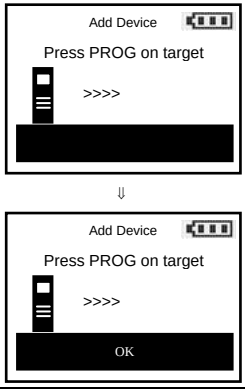
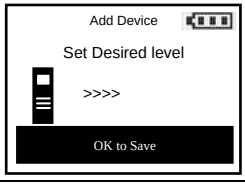
Scene Setup

Z-Wave Scenes are used for setting up multiple devices in a scene. You can set to different levels depending on the situation. For example you can have the scene set to low brightness for watching a movie or going to bed or alternatively set the lights brighter when reading or working. After the scene has been programmed it will work with the corresponding On/Off keys of ZRC-100.

You can control up to 12 scenes (Scene On/Off) with your ZRC-100. Each Scene supports up to 32 Z-Wave devices or End-point (EP).

Adding Device/End-point to a Scene

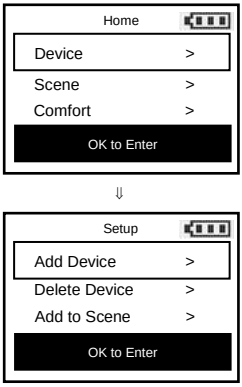
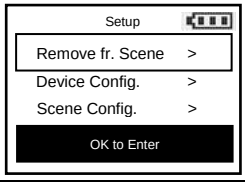
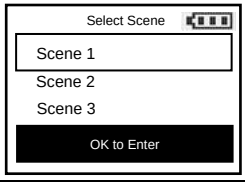
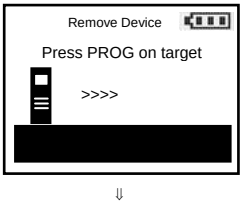
Step	Setup Key	LCD Indication
1	Press and hold ◀ ▶ keys for 3 seconds under the Home page.	

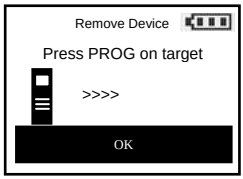
		
2	Select “Add to Scene” and press OK key.	
3	Select a Scene which you want to add the device into Scene and press OK key.	
4	Press the program button on the target device.	
5	Adjust the target device on/off or dim level with its program button, to the desired level.	

Note 1: Your target device must be included in the network before this setup procedure, please refer to [Adding Device to the Network] section.

Note 2: If no ACK signal received for more than 60 seconds, the "Add Device" mode will exit automatically.

Removing Device/End-point from a Scene

Step	Setup Key	LCD Indication
1	Press and hold ◀ ▶ keys for 3 seconds under the Home page.	
2	Select "Remove from Scene" and press OK key.	
3	Select a Scene which you want to delete the device from Scene and press OK key.	
4	Press the program button on the target device.	

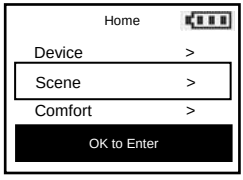
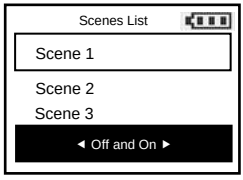
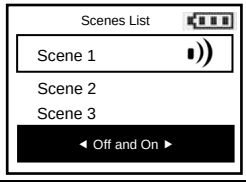
		

Note 1: This process will only remove the target device/EP from its assigned scene but will not exclude it from the network.

Note 2: If no ACK signal received for more than 60 seconds, the "Remove Device" mode will exit automatically.

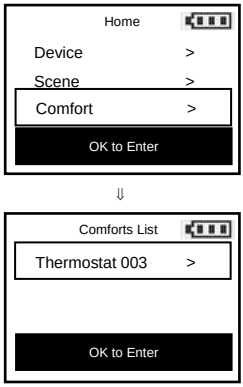
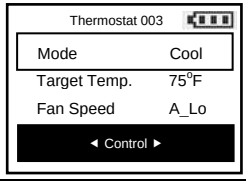
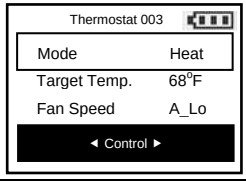
Scene Control

After the scene setup is done, you can trigger the desired scene via scene control function on ZRC-100.

Step	Setup Key	LCD Indication
1	Select "Scene" and press OK key to entry the Scene control page under Home page.	 ⇓ 
2	Select your Scene and press ▶ key to turn on the Scene and ◀ key to turn off the Scene.	

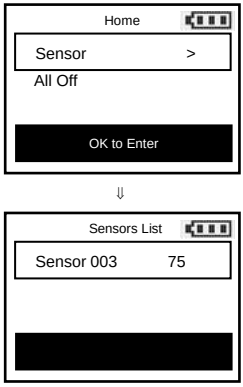
Comfort Control

After adding “Thermostat” or “Z-Wave to AC IR extender” to your ZRC-100, you can change the operation mode, set target temperature and fan speed via the corresponding Comfort Control function.

Step	Setup Key	LCD Indication
1	Select “Comfort” and press OK key to entry the Comfort control page under Home page.	
2	Select your Thermostat and press OK key to entry the Thermostat control page.	
3	Use ◄ ► keys to switch the operation mode, set target temperature or fan speed.	

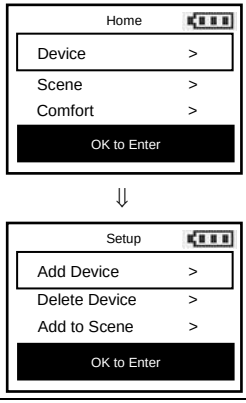
Sensor information

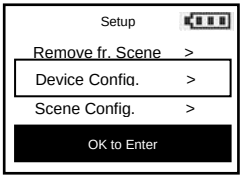
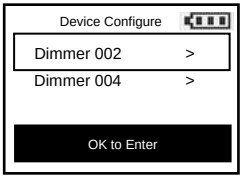
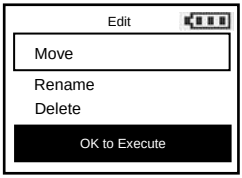
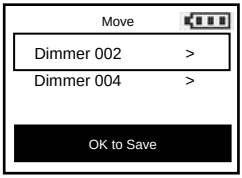
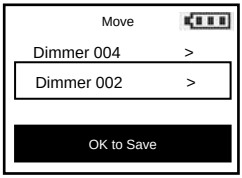
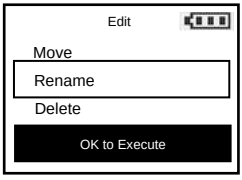
After adding “Binary Sensor / Multi-level Sensor” to your ZRC-100, you can monitor the sensor temperature via the corresponding Sensor function.

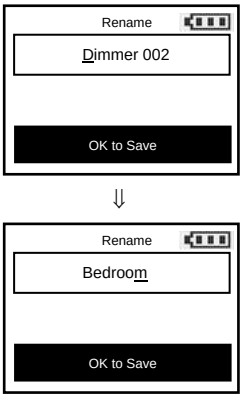
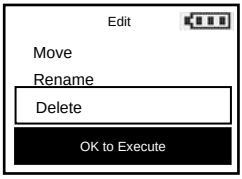
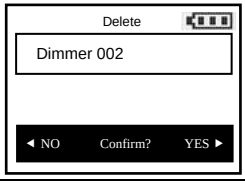
Step	Setup Key	LCD Indication
1	Select “Sensor” and press OK key to entry the Sensor page under Home page.	

Device Configure

It is allow to Move/Rename/Delete the device after added into the network under the Device Configure function.

Step	Setup Key	LCD Indication
1	Press and hold ◄ ► keys for 3 seconds under the Home page.	

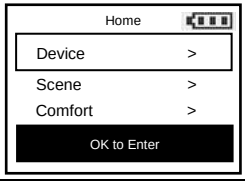
2	Select “Device Configure” and press OK key.	
3	Select your “Device” and press OK key.	
4	Select your action (e.g. Move) and press OK key.	
5	Move your selected device to your target position and press OK to save the setting.	 ⇓ 
6	Select your action (e.g. Rename) and press OK key.	

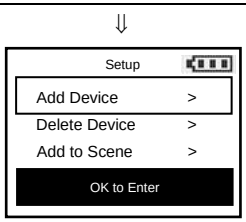
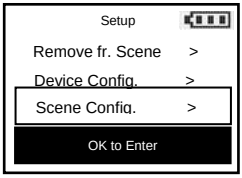
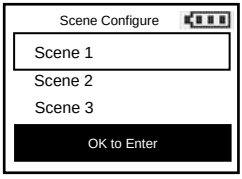
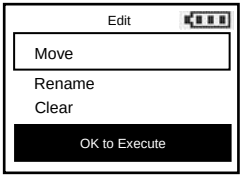
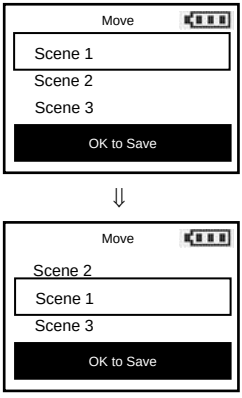
7	Use ▲▼keys to change your character and ◄► keys to select character position, press OK to save the setting.	
8	Select your action (e.g. Delete) and press OK key.	
9	Press ► key to confirm to delete the selected device or press ◄ key to cancel it and go back to previous page.	

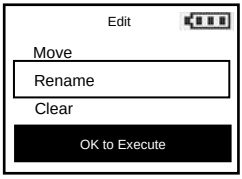
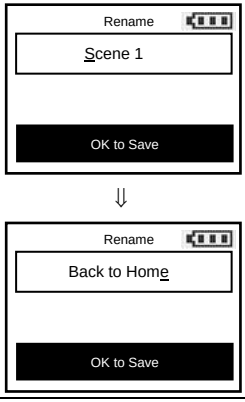
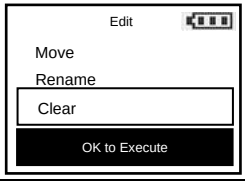
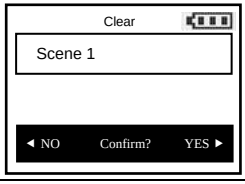
Note 1: ZRC-100 supports up to 16 characters in a row for the device name.

Scene Configure

It is allow to Move/Rename/Clear the scene after added into the scene under the Scene Configure function.

Step	Setup Key	LCD Indication
1	Press and hold ◄► keys for 3 seconds under the Home page.	

		
2	Select “Scene Configure” and press OK key.	
3	Select your “Scene” and press OK key.	
4	Select your action (e.g. Move) and press OK key.	
5	Move your selected scene to your target position and press OK to save the setting.	

6	Select your action (e.g. Rename) and press OK key.	
7	Use ▲▼keys to change your character and ◄► keys to select character position, press OK to save the setting.	
8	Select your action (e.g. Clear) and press OK key.	
9	Press ► key to confirm to clear the selected scene or press ◄ key to cancel it and go back to previous page.	

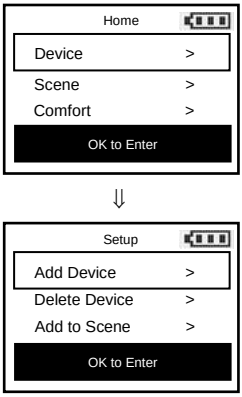
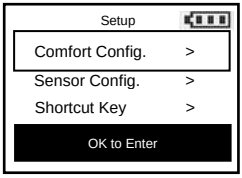
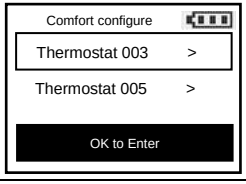
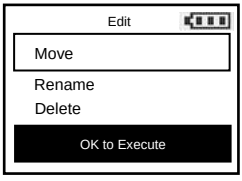
Note 1: ZRC-100 supports up to 16 characters in a row for the scene name.

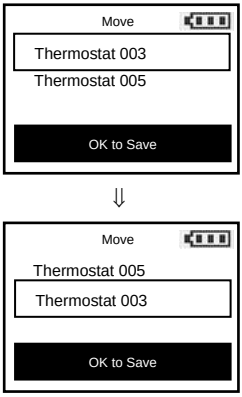
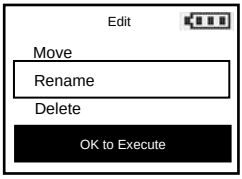
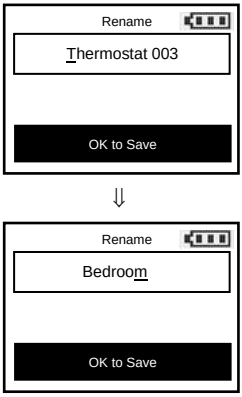
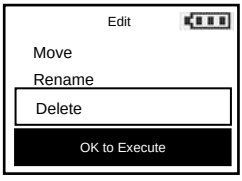
Note 2: This process will only remove the scene devices/EPs from its assigned scene but will not exclude it from the network.

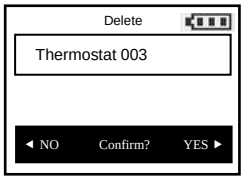
Note 3: The above steps are needed if ZRC-100 to be a secondary remote controller and the Scene information mapping from gateway / primary controller is unsuccessful.

Comfort / Sensor Configure

It is allow to Move/Rename/Delete the device after added into the network under the Comfort / Sensor Configure function.

Step	Setup Key	LCD Indication
1	Press and hold ◄ ► keys for 3 seconds under the Home page.	
2	Select "Comfort Configure" and press OK key.	
3	Select your "Thermostat" and press OK key.	
4	Select your action (e.g. Move) and press OK key.	

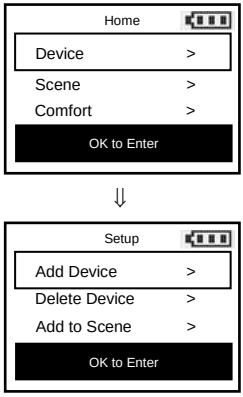
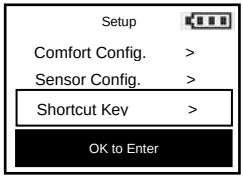
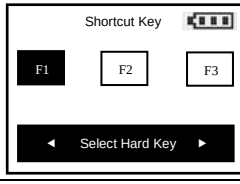
5	Move your selected Thermostat to your target position and press OK to save the setting.	
6	Select your action (e.g. Rename) and press OK key.	
7	Use ▲▼keys to change your character and ◄► keys to select character position, press OK to save the setting.	
8	Select your action (e.g. Delete) and press OK key.	

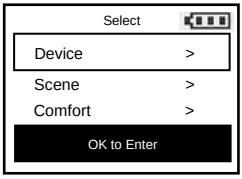
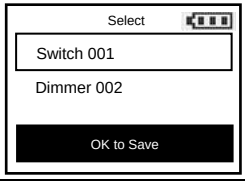
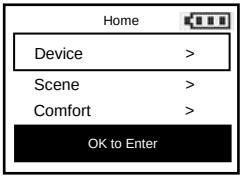
9	Press ► key to confirm to delete the selected thermostat or press ◄ key to cancel it and go back to previous page.	

Note 1: ZRC-100 supports up to 16 characters in a row for the scene name.

Shortcut key

ZRC-100 provides a shortcut key which can jump to your target Comfort / Sensor device or turn On/Off your device/ Scene.

Step	Setup Key	LCD Indication
1	Press and hold ◄ ► keys for 3 seconds under the Home page.	
2	Select "Shortcut key" and press OK key.	
3	Select your target shortcut key by ◄ ► keys (e.g. F1) then press OK key.	

4	Select your target Device / Scene / All Off for your shortcut key or Select your target shortcut page (Comfort / Sensor) for your shortcut key.	
5	Select a Device or Scene to this shortcut key then press OK key.	
6	Press F1 key to turn On your Device or Scene at any page or Press and hold F1 key to turn Off your Device or Scene at any page. *(Press your shortcut key can jump to your target Comfort / Sensor device)*	

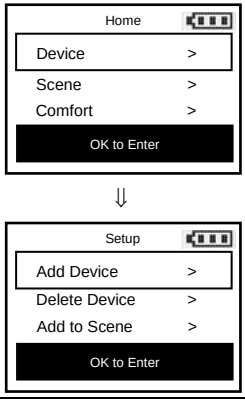
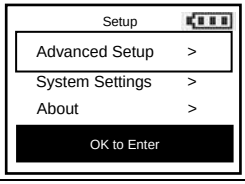
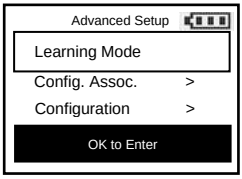
Z-Wave Advanced Setup

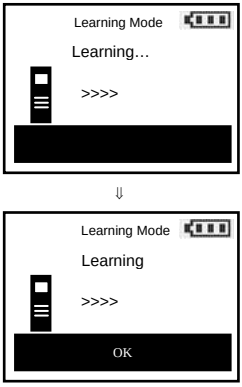
Learning Mode

(Replicating All Network and Device Information from a Primary Controller to your ZRC-100)

Your ZRC-100 can:

- Copy the settings from another Z-Wave controller.
- Be included into existing Z-Wave network and become a secondary remote controller or back to a new primary remote controller.
- Be excluded from the Z-Wave network.

Step	Setup Key	LCD Indication
1	Place the two controllers close to each other.	-
2	Press and hold ◄ ► keys for 3 seconds under the Home page.	
3	Select "Advanced Setup" and press OK key.	
4	Select "Learning Mode" and press OK key. Please make sure the primary controller is setup to send	

	information. (Refer to the primary controller user manual for more information)	
5	Place the two controllers close to each other. (LCD display OK if the learning mode is successful. LCD display ERROR if the learning mode is unsuccessful.)	

⚠ CAUTION

Scene Controller Configuration Command and Association Command

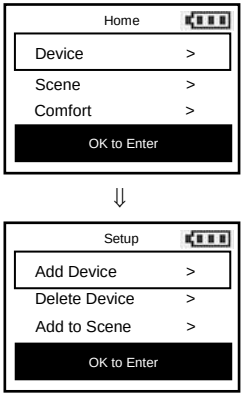
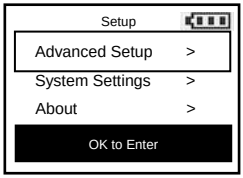
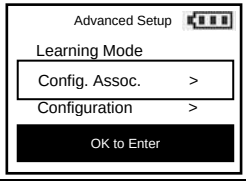
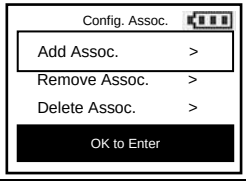
If scenes are copied to a secondary controller using the replication function, those scenes cannot be modified using the Scene Controller Configuration and Association Commands. If modifications are desired, it is recommended to delete all these scenes from the controller prior to using the two aforementioned commands.

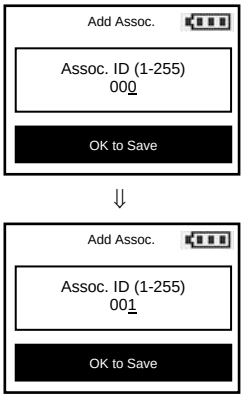
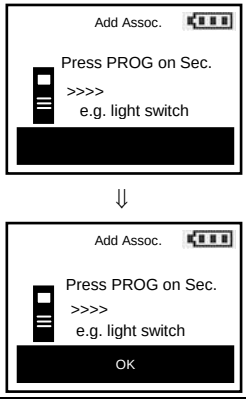
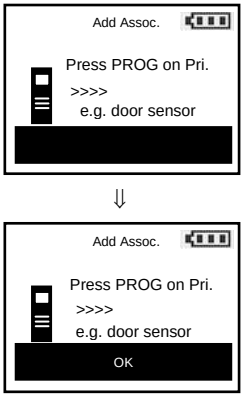
Configure Association

(Assign Association for Two Devices)

The ZRC-100 can be used to assign one device to automatically interact directly with another device.
For example you can assign a door sensor (primary node) to turn on the light switch (secondary node) when the door is opened.

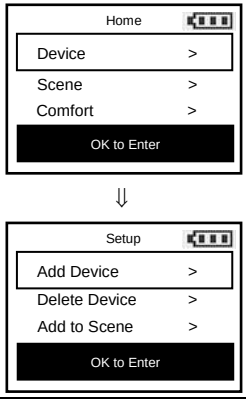
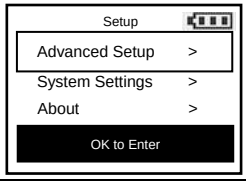
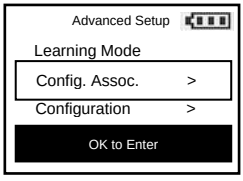
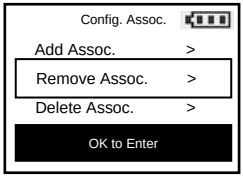
Adding Device/End-point to an Association Group

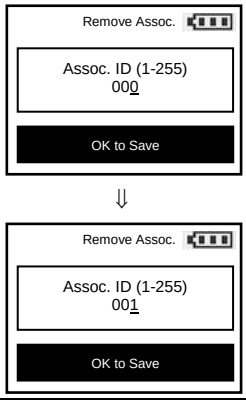
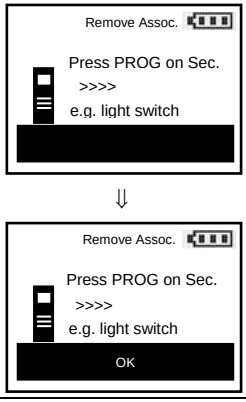
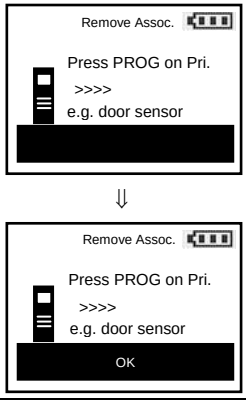
Step	Setup Key	LCD Indication
1	Press and hold ◄ ► keys for 3 seconds under the Home page.	
2	Select "Advanced Setup" and press OK key.	
3	Select "Config. Assoc." and press OK key.	
4	Select "Add Assoc." and press OK key.	

5	Assign an "Assoc. ID" (e.g. 001) by using ▲▼keys to change your number and ◄► keys to select number position. Press OK key to save the settings.	
6	Press the program/EP button on the secondary device (e.g. light switch)	
7	Press the program/EP button on the primary device (e.g. door sensor) *=> It will turn on the light switch when the door is open.*	

Note 1: Your target device must be included in the network before this setup procedure, please refer to [Adding Device to the Network] section.

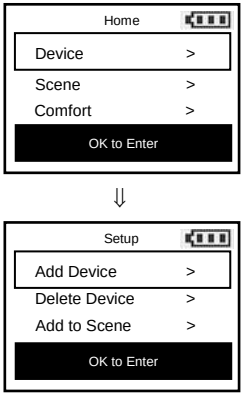
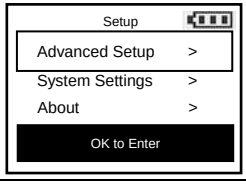
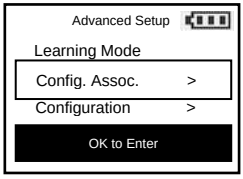
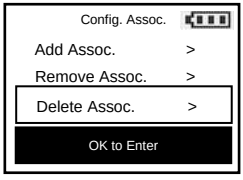
Removing Device/End-point from an Association Group

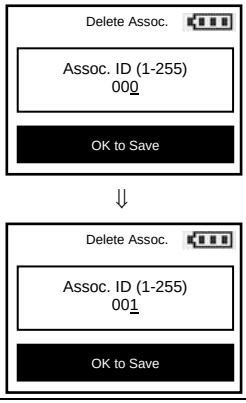
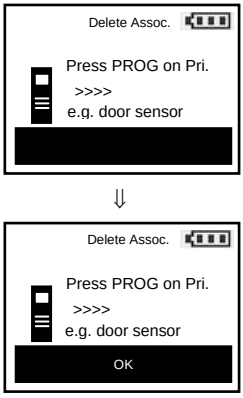
Step	Setup Key	LCD Indication
1	Press and hold ◄ ► keys for 3 seconds under the Home page.	
2	Select "Advanced Setup" and press OK key.	
3	Select "Config. Assoc." and press OK key.	
4	Select "Remove Assoc." and press OK key.	

5	Select an "Assoc. ID" (e.g. 001) by using ▲▼keys to change your number and ◄ ► keys to select number position. Press OK key to save the settings.	
6	Press the program/EP button on the secondary device (e.g. light switch)	
7	Press the program/EP button on the primary device (e.g. door sensor)	

Note 1: This process will only remove the target device/EP from its assigned association group but will not exclude it from the network.

Deleting an Association Group

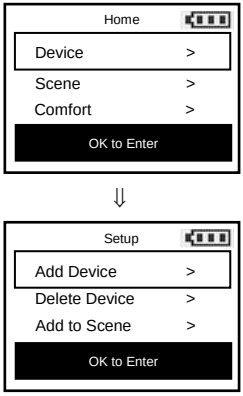
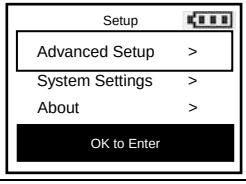
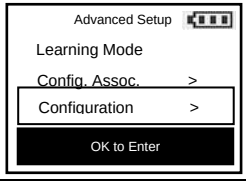
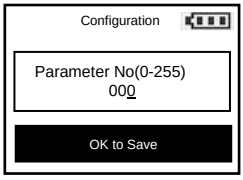
Step	Setup Key	LCD Indication
1	Press and hold ◄ ► keys for 3 seconds under the Home page.	
2	Select "Advanced Setup" and press OK key.	
3	Select "Config. Assoc." and press OK key.	
4	Select "Delete Assoc." and press OK key.	

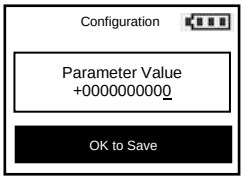
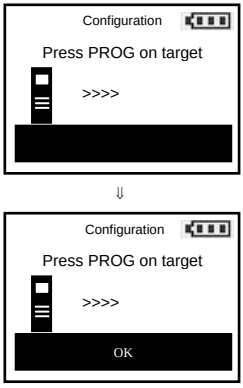
5	Select an "Assoc. ID" (e.g. 001) by using ▲▼keys to change your number and ◄ ► keys to select number position. Press OK key to save the settings.	
6	Press the program/EP button on the primary device (e.g. door sensor)	

Note 1: This process will only remove the group devices/EPs from its assigned association group but will not exclude it from the network.

Change Device Configuration

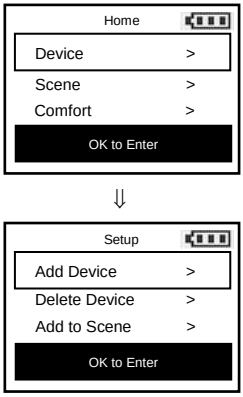
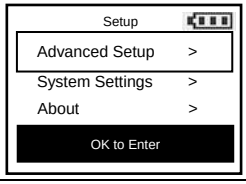
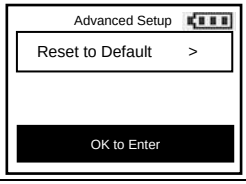
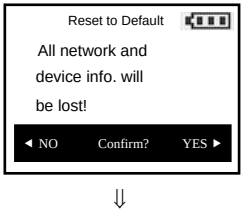
This function is used to modify the parameter of the Z-Wave device via the configuration command class.
Look up the Parameter No. and Parameter Value of the target device from the device user manual before you start the below process.

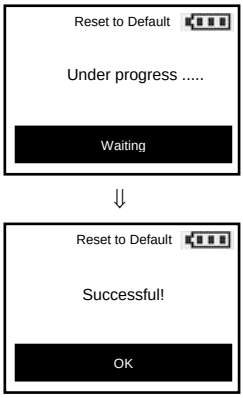
Step	Setup Key	LCD Indication
1	Press and hold ◄ ► keys for 3 seconds under the Home page.	
2	Select "Advanced Setup" and press OK key.	
3	Select "Configuration" and press OK key.	
4	Use ▲▼keys to change your parameter number and ◄ ► keys to select number position, press OK to save the setting.	

5	Use ▲▼keys to change your parameter value and ◄ ► keys to select number position, press OK to save the setting. (Parameter value from -2147483648 to +2147483647 (32bits value)	
6	Press the program button on the target device.	

Resetting Your Network

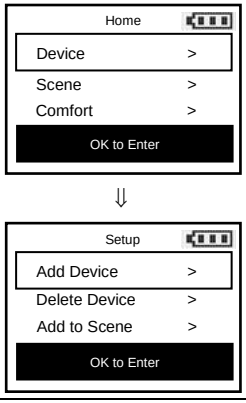
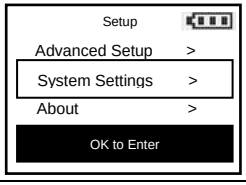
You can reset your ZRC-100 to clear all Z-Wave network and device information by the following steps:

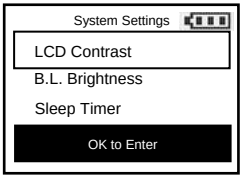
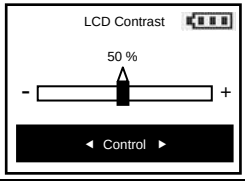
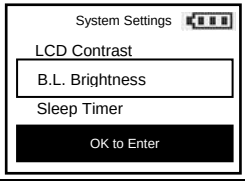
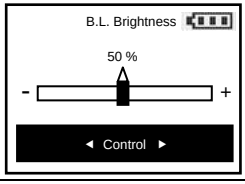
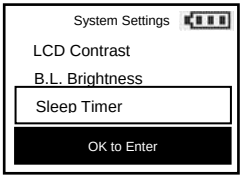
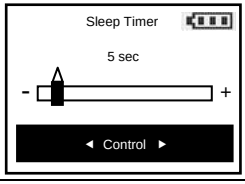
Step	Setup Key	LCD Indication
1	Press and hold ◄ ► keys for 3 seconds under the Home page.	
2	Select "Advanced Setup" and press OK key.	
3	Select "Reset to Default" and press OK key.	
4	Press ► key to confirm to reset to factory default or press ◄ key to cancel it and go back to previous page.	

Note: After reset the remote, each device should individually perform in the section on "Delete device from the network" and "Add device to the network".

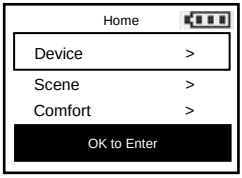
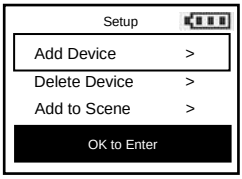
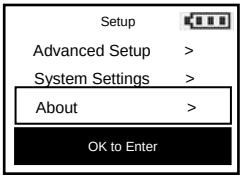
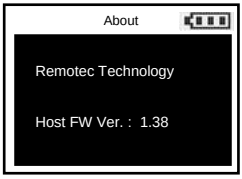
System Settings

Step	Setup Key	LCD Indication
1	Press and hold ◄ ► keys for 3 seconds under the Home page.	
2	Select "System Settings" and press OK key.	

3	Select "LCD Contrast" and press OK key.	
4	Press ◄ ► keys to adjust the LCD contrast.	
5	Press BACK key to save and return to previous page then select "B.L. Brightness" and press OK key.	
6	Press ◄ ► keys to adjust the backlight brightness.	
7	Press BACK key to save and return to previous page then select "Sleep Timer" and press OK key.	
8	Press ◄ ► keys to adjust the sleep timer.	

Note 1: The batteries service life will be shortened if the sleep timer set to higher value.

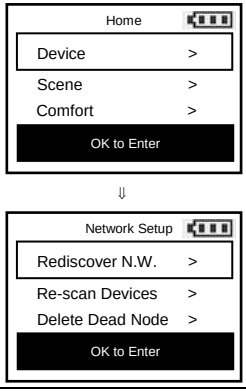
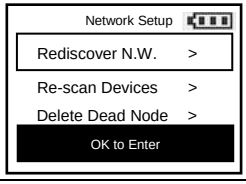
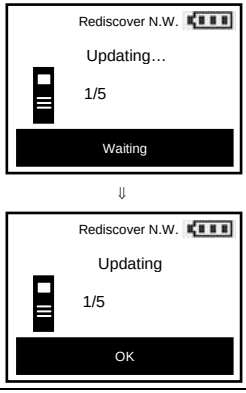
About ZRC-100

Step	Setup Key	LCD Indication
1	Press and hold ◄ ► keys for 3 seconds under the Home page.	 ⇓ 
2	Select "About" and press OK key. It will show the firmware version on the screen.	 ⇓ 

Z-Wave Network Setup

Rediscover Network (N.W.)

During normal operation the network decides the best path to route signals from one device to another. If devices are moved to different positions in the installation, it is recommended to rediscover the network so the routing path will be re-configured.

Step	Setup Key	LCD Indication
1	Press and hold ▲▼ keys for 3 seconds under the Home page.	
2	Select "Rediscover N.W." and press OK key.	
3	The remote is updating the network information. The LCD will display OK and go back to previous page when it is completed.	

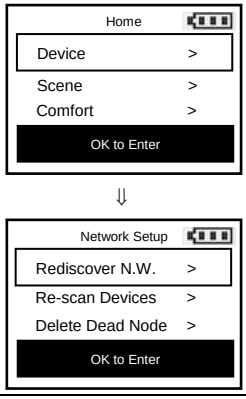
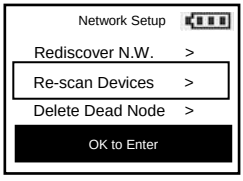
Re-scan (Rediscover) Devices from network

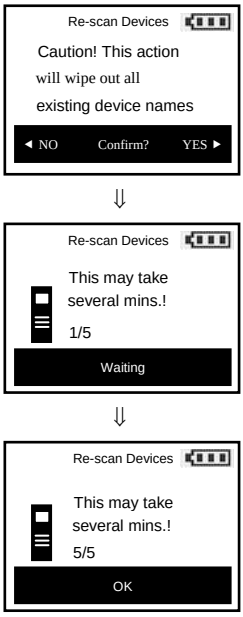
In most cases, your home Z-Wave gateway will become a primary controller (control center), all Z-Wave devices will be added / (inclusion) by the Z-Wave gateway. Normally, it is need to click the PROG button of the Z-Wave device to add into the network and one by one. The gateway will create a control page / section to Z-Wave devices. User can control / monitor Z-Wave devices under the control page.

ZRC-100 is able to discover all existing Z-Wave devices from the network and no need to click the PROG button one by one, discovered devices will be re-assigned to their default categories (Devices, Comforts and Sensors), and names will be re-assigned in ascending order which is implemented by the function of "Re-scan Devices".

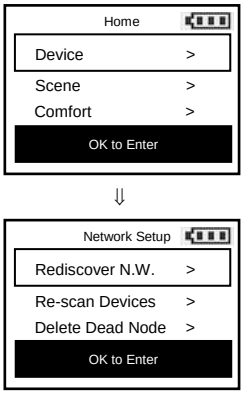
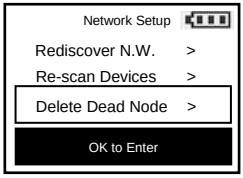
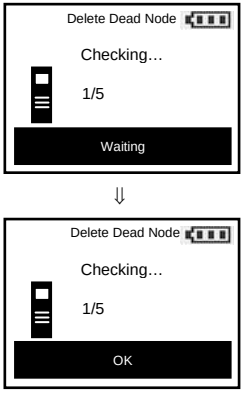
To implement this function, your ZRC-100 is needed to follow below steps:

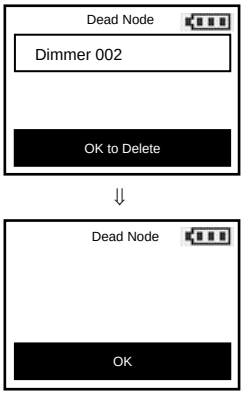
1) Assume all Z-Wave devices have been added by gateway
2) ZRC-100 should become a secondary controller (receive all network and device information from a primary controller), please refer to "Learning Mode" section in this manual.
3) Execute the "Re-scan Devices" function with below steps.

Step	Setup Key	LCD Indication
1	Press and hold ▲▼ keys for 3 seconds under the Home page.	
2	Select "Re-scan Devices" and press OK key.	

3	Press ► key to confirm re-scan devices or press ◄ key to cancel it and go back to previous page. The remote will re-scan all devices from network, discovered devices will be re-assigned to their default categories (Devices, Comforts and Sensors) names will be re-assigned in ascending order. The LCD will display OK and go back to previous page when it is completed. This action may take several minutes. **(Caution: this action will wipe out all existing device names!)**	

Delete Dead Node from Network

Step	Setup Key	LCD Indication
1	Press and hold ▲▼ keys for 3 seconds under the Home page.	
2	Select “Delete Dead Node” and press OK key.	
3	The remote is checking the dead node. The LCD will display OK and go back to previous page when it is completed.	

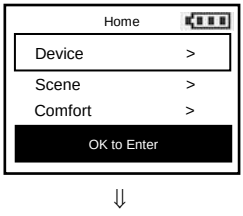
4	Use ▲▼ keys to select the dead node device then press OK key to delete it from network.	

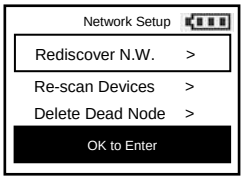
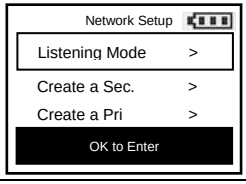
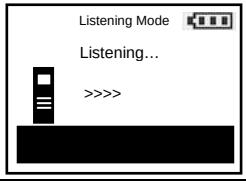
Note 1: Only the Primary Controller can be used to include or delete devices from a network. It is recommended that you mark the primary controller for each network for ease in modifying your network.

Listening Mode

There are multiple usages by entering this mode:

- Version command class: To get application software version, the Z-Wave protocol version and the supported Z-Wave command version of this controller.
- Manufacturer command class: To get the manufacture ID, product type ID and the product ID of this controller.
- Scene configuration command class: Home gateway can bundle a scene ID to a group ID using this command.
- Association command class: To create and maintain associations in this remote.

Step	Setup Key	LCD Indication
1	Place the two controllers close to each other.	-
2	Press and hold ▲▼ keys for 3 seconds under the Home page.	

		
3	Select “Listening Mode” and press OK key.	
4	The remote is entry the listening mode. (Listening mode will automatically exit after 1 minute of inactivity.)	

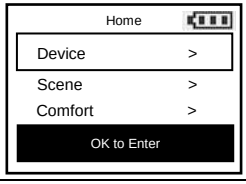
Note1: The mode must not be exited during communication process with another controller. Please wait for entire communication process to be completed.

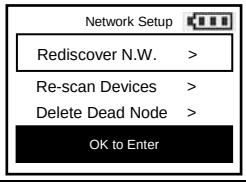
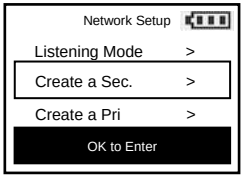
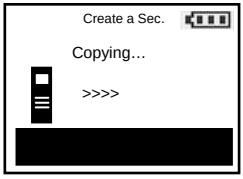
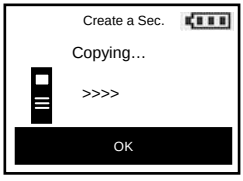
Note2: It is not allowed to enter any user input from the remote's hard key after entry this Mode.

Create a Secondary Controller

(Copying Network Information to a Secondary Controller)

You can add a secondary controller to your network and copy all of your primary controller’s network information to the secondary controller by following the steps below.

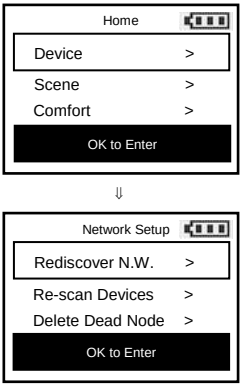
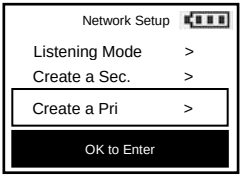
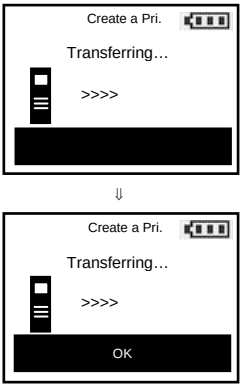
Step	Setup Key	LCD Indication
1	Place the two controllers close to each other.	-
2	Press and hold ▲▼ keys for 3 seconds under the Home page.	

		⇓ 
3	Select “Create a Sec.” then press OK key.	
4	Please make sure the target secondary controller is setup to receive information mode. (e.g. target secondary controller should entry the “Learning mode” if this is a another ZRC-100. Please refer to the target controller user manual for more information) => Target secondary controller will become a secondary controller after this action. => Original ZRC-100 primary controller will still keep in a primary controller after this action.	 ⇓ 

Create a Primary Controller

(Transferring Only Network Information to a New Primary Controller)

You can just transfer network information to another remote so that it will become the new primary remote. This primary shift is done by following the steps below.

Step	Setup Key	LCD Indication
1	Place the two controllers close to each other.	-
2	Press and hold ▲▼ keys for 3 seconds under the Home page.	
3	Select “Create a Pri.” then press OK key.	
4	Please make sure the target primary controller is setup to receive information mode. (e.g. target primary controller should entry the “Learning mode” if this is a another ZRC-100. Please refer to the target controller user manual for more information) => Target primary controller will become a primary controller after this action. => Original ZRC-100 primary controller will become a secondary controller after this action.	

WIRELESS INFORMATION

Wireless range:

This device has an open air line of sight transmission distance of 100 feet which complies with the Z-Wave standards. Performance can vary depending on the amount of objects in between Z-Wave devices such as walls and furniture. Every Z-Wave device set up in your house will act as a signal repeater allowing devices to talk to each other and find alternate routes in the case of a reception dead spot.

Radio frequency limitations:

1. Each wall or object (i.e.: refrigerator, bookshelf, large TV, etc) can reduce the maximum range of 65 feet by up to 25 to 30%.
2. Plasterboard and wooden walls block less of the radio signal then concrete, brick or tile walls which will have more of an effect on signal strength.
3. Wall mounted Z-Wave devices will also suffer a loss of range as they are housed in metal junction boxes which could reduce the range by up to 25 to 30%.

MAINTENANCE

1 Do not expose your remote to dust, strong sunlight, humidity, high temperatures or mechanical shocks.
2 Do not use old and new batteries together as old batteries tend to leak.
3 Do not use corrosive or abrasive cleansers on your remote.
4 Keep the unit dust free by wiping it with a soft, dry cloth.
5 Do not disassemble your remote controller, it contains no user-serviceable parts.

FREQUENTLY ASKED QUESTIONS

Z-Wave Frequently Asked Questions

Q Why won't my remote work with the Z-Wave devices I purchased from another country?

A Due to different countries regulations Z-Wave products from different regions are set to different frequencies. Before purchasing new devices make sure you have checked that the device is compatible in your region.

Q Do I need an electrician to install Z-Wave products in my house?

A Installation can be simple. In some cases all you need to do is attach the Z-Wave plug in module into the wall socket. For more advanced in-wall modules you may need this done by a qualified technician.

Q What can the Remotec ZRC-100 do for me?

A A single Z-Wave network can include 232 nodes. If necessary, more than one network can be bridged to extend the number of nodes further, although this is normally not needed in a residential environment.

The total number of controllable End-point (EP) / device / sensor is 128 items which is listed on the “Device” and “Sensor” page. ZRC-100 also supports 6 thermostats which are listed on the “Comfort” page. You can control up to 12 scenes (Scene On/Off) with your ZRC-100. Each Scene supports up to 32 Z-Wave devices or End-point (EP).

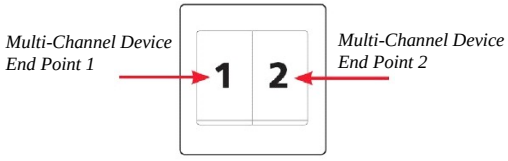
It is able to control the Z-Wave lighting devices (Dimmer or Switch) with multi-channel, window shades, thermostats, Z-Wave to AC IR extender and door lock. Also, it is support Multi-level Sensor and that can show the current room temperature on the screen.

Q What is multi-channel device?

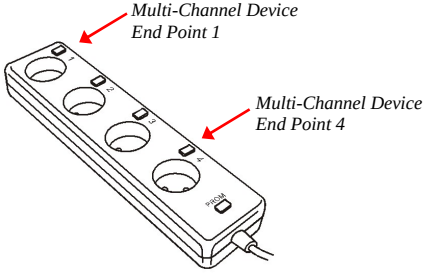
A The multi-channel command class used to control one or more end points in a given device that supports this command class.

There are several kinds of multi-channel products in the market such as Z-Wave wall switch / dimmer and power strip. It is able to control the end-point individually.

- Z-Wave wall switch / dimmer



- Z-Wave power strip



Please refer to the target device user manual for more information such as Inclusion / Exclusion and add End Point to a Scene / Group.

Q Why do I need a different module for outdoor lighting?

A The outdoor module is designed to withstand various weather conditions including heat, rain and snow.

Q Can I use 2 or more ZRC-100 controllers in my house at one time?

A You can use multiple ZRC-100 around your house by assigning one remote to be the primary remote and have an additional secondary controller.

Q If I lost my ZRC-100 will I also lose my settings?

A Yes and no, if you lose your primary ZRC-100 you will need to add all the Z-Wave devices to your new primary remote again. If you lose the secondary one you can replicate all the Z-Wave setup information from your primary remote onto a new secondary remote.

Q Where can I keep up to date with the latest Z-Wave products for my house?

A You can keep up to date by visiting the www.remotec.com.hk website where we will have information and ideas for using Z-Wave technology.

Q How do I know which product is compatible to my ZRC-100 remote?

A You can check either the specifications in the manual of your remote or also check online at www.remotec.com.hk for a full list of products that can be used with your remote. All Z-Wave products also come with the Z-Wave logo.

Q Can the ZRC-100 also operate Zigbee products?

A The ZRC-100 is not compatible with any Zigbee product.

TECHNICAL SPECIFICATIONS

Model No.	BW8380US (ZRC-100US)
Model No.	BW8380EU (ZRC-100EU)
Model No.	BW8380AU (ZRC-100AU)
Model No.	BW8380IN (ZRC-100IN)
RF Frequency	908.4MHz (US)
RF Frequency	868.4MHz (EU)
RF Frequency	921.4MHz (AU)
RF Frequency	865.2MHz (IN)
LCD	FSTN Positive Transflective 128x64 dots at A.A.= 35.8x21.7mm
LCD and key pad backlight color	Amber
Max. Range	up to 100ft outdoor line of sight, in unobstructed environment
Power	Dry cell AAA x 4pcs
Temperature	operation: 0~40℃ storage: -20~60℃
Dimension (LxWxT)	161mm x 52mm x 15mm
Weight	75g (Batteries excluded)

Z-Wave device type		
Basic Device Class: BASIC_TYPE_CONTROLLER		
Generic Device Class: GENERIC_TYPE_GENERIC_CONTROLLER		
Specific Device Class: SPECIFIC_TYPE_PORTABLE_SCENE_CONTROLLER		
Z-Wave Command Class	**Controlled**	**Supported**
COMMAND_CLASS_BASIC	YES	YES
COMMAND_CLASS_SWITCH_ALL	YES	NO
COMMAND_CLASS_SWITCH_MULTILEVEL	YES	NO
COMMAND_CLASS_SCENE_ACTIVATION	YES	NO
COMMAND_CLASS_SCENE_CONTROLLER_CONF	YES	YES
COMMAND_CLASS_THERMOSTAT_MODE	YES	NO
COMMAND_CLASS_THERMOSTAT_SETPOINT	YES	NO

COMMAND_CLASS_THERMOSTAT_FAN_MODE	YES	NO
COMMAND_CLASS_SENSOR_BINARY	YES	NO
COMMAND_CLASS_SENSOR_MULTILEVEL	YES	NO
COMMAND_CLASS_CONTROLLER_REPLICATION	NO	YES
COMMAND_CLASS_ASSOCIATION	YES	YES
COMMAND_CLASS_MULTI_CHANNEL_ASSOCIATION	YES	YES
COMMAND_CLASS_VERSION	NO	YES
COMMAND_CLASS_CONFIGURATION	YES	NO
COMMAND_CLASS_MANUFACTURER_SPECIFIC	NO	YES
COMMAND_CLASS_WAKE_UP	NO	YES
COMMAND_CLASS_DOOR_LOCK	YES	NO
COMMAND_CLASS_SECURITY	YES	YES

CHECKING THE ACCESSORIES

After opening the cover of the packing box, check that the following accessories are included.

- ZRC-100 Z-Wave Remote Control
- ZRC-100 Quick Reference Guide
- ZRC-100 User Manual (download from our website)

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.

WARNINGS

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

- RISK OF FIRE
- RISK OF ELECTRICAL SHOCK
- RISK OF BURNS

Exercise extreme caution when using Z-Wave devices to control appliances. Operation of the Z-Wave device may be in a different room

then the controlled appliances, also an unintentional activation may occur if the wrong button on the remote is pressed. Z-Wave devices may automatically be powered on due to timed event programming. Depending upon the appliance, these unattended or unintentional operations could possible result in a hazardous condition. For these reasons we recommend the following:

- Do not include Z-Wave devices to control electric heaters or other appliances which may present a hazardous condition due to an unattended or unintentional or automatic power on control.

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.

CAUTION

- RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE
- DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS

www.remotec.com.hk

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