CITYGROW

CG201 SERIES
Wireless Home Automation System

User Manual

IMPORTANT NOTES

PLANNING
To fully understand this ⚡ product and its proper functions, please read this manual before installation.
IMPORTANT
1.All ⚡ products can be installed in standard BS4662 single switch boxes with internal dimensions of 65mm x 65m x 35mm .
2.This device requires a neutral AC connection
3.This system requires a COORDINATOR, Model number is CG100C. The appearance of this COORDINATOR is same as an one gang light switch. It works as the heart of the system, it also works same as an one gang light switch. In order to identify the COORDINATOR, you can either look at the model label at the rear cabinet, or looking at the label "COORDINATOR"------- located inside the switch cover.
4.Within a network, you only need one COORDINATOR, more than one COORDINATOR is not allowed.

WIRELESS REMOTE CONTROLLER
The Wireless remote controller operates at 2.4GHz, IEEE802.15.4, The operating range is approximately 60 meters in an open area point to point, subject to environment conditions. The control distance can be extended if you install more devices at different locations.

PRODUCT SAFETY
In accordance with BS4662, all switch products can be installed in a standard switch box. The ⚡ unit complies with EN60669-1 , EN60669-2 (for switch, dimmer) and BS1363(for AC socket). Furthermore, the effective radiated power of the device does not exceed 100mW which complies with Office of the Telecommunication Authority (OFTA), Hong Kong telecommunication order.

! **WARNING!** Improper use or installation can cause SERIOUS INJURY, DEATH or LOSS/DAMAGE OF PROPERTY.

! **WARNING!** Install in accordance with all national and local electrical codes.

! **WARNING!** Have a professional electrician do the installation

! **Important!** CityGrow is NOT liable for any damage incurred with the misuse of this product.

! **Important!** Do NOT use a power screw driver to install this device

! **Important!** Pre-setup only could be done by professional worker or manufacturer agent.

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REGULATORY COMPLIANCE

FCC RF Radiation Exposure statement
This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

FCC ID: WSFCG201AS-EM
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 interfence, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 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.
IMPORTANT! Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

TROUBLESHOOTHING

If ⚡ unit does not function properly after installation, please refer to the TROUBLESHOOTING GUIDE section

CHOOSING THE RIGHT LOCATION
It is important to select the right location for your light switch, dimmer and AC socket
It should be:
1.Easily accessible for programming and other operations.
2.In a location away from water, humidity, direct sunlight and dust.
3.The performance of wireless network relies on the wireless connection between the devices location in your house. During installation, pay attention that the range and performance of the wireless control system is highly dependent on
 a. Distance between devices
 b. Layout of the house
 c. Walls separating devices
 d. Electrical equippment located near the devices
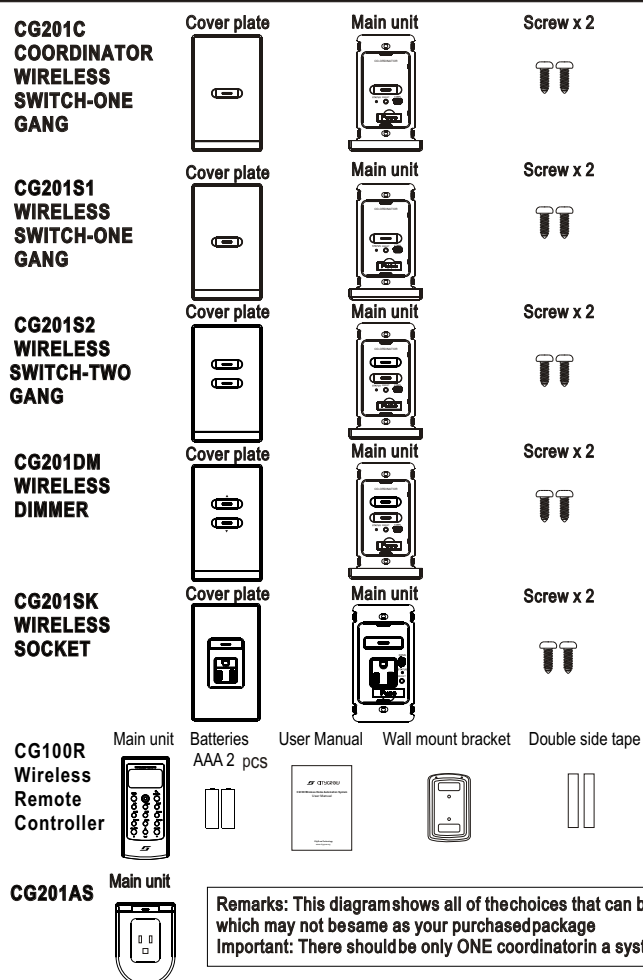 e. Refer to Quick Installation Guide for the selection of installation location

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fold size: 105 x146mm (-14pcs 210x146mm)
Materiel: 80 gms paper   BK+BK   Black on white

CONTENTS

1. CG201 PACKAGE COMPONENT

CG201C
COORDINATOR
WIRELESS
SWITCH-ONE
GANG

Cover plate   Main unit   Screw x 2

CG201S1
WIRELESS
SWITCH-ONE
GANG

Cover plate   Main unit   Screw x 2

CG201S2
WIRELESS
SWITCH-TWO
GANG

Cover plate   Main unit   Screw x 2

CG201DM
WIRELESS
DIMMER

Cover plate   Main unit   Screw x 2

CG201SK
WIRELESS
SOCKET

Cover plate   Main unit   Screw x 2

CG100R
Wireless
Remote
Controller

Main unit   Batteries AAA 2 pcs   User Manual   Wall mount bracket   Double side tape

CG201AS   Main unit

Remarks: This diagram shows all of the choices that can be purchased, which may not be same as your purchased package
Important: There should be only ONE coordinator in a system

2. INTRODUCTION

Thank you for selecting ⬛ product , this intelligent Home Automation system is working on IEEE 802.15.4 Communication standard. It offers beneficial features like ....

1. Wireless control at 2.4Ghz
2. Wireless control distance can be extended by locating different ⬛ devices at different location , these devices form a communication network.
3. Bi-directional communication that you can either control or monitor the status of your ⬛ devices
4. Simple installation procedures
5. Simple wiring, extra data cable is NOT required
6. Central control box is NOT required
7. Energy saving, NO minimum load is required

Other than the above, with one Wireless remote controller, you can control 10 different groups of device and five different light moods. The Wireless remote controller can handle maximum 50 devices registration (add the device to groups or moods), and maximum 200 control actions in different groups and moods. That means you can totally control up to 50 devices (if you have bought 50 light switch, dimmer or sockets). Maximum device handling details of the Wireless remote controller are stated in section 9.4 of this manual.

You can also pre-program more than one Wireless remote controller into your house, because in some cases you may want to put more Wireless remote controller in your house for different users or locate several Wireless Remote Controller in different rooms.

The TIMER function allows you to pre-program the automatic ON TIME or OFF TIME of your light switch, dimmer or AC socket to save the energy.
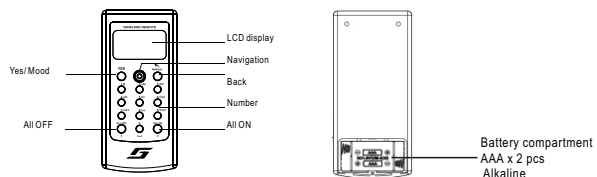
The Mood (Scenario) lighting function allows you to create your favourite scenario lighting effect.

The ALL ON and ALL OFF function is convenience for you to switch on or switch off all devices by a single button when you come or leave your house.

This product operates as a standard wall-mount switch, dimmer and AC socket, it can be retrofitted in standard wall-box.

Wireless Remote Controller

LCD display
Navigation
Back
Number
All ON
Yes/Mood
All OFF

Battery compartment
AAA x 2 pcs
Alkaline

3.1 Buttons

Buttons	Screen Display	Operation	Action
Yes/Mood	Device Status Page	Press	Switch to Mood Control: press 1-5 to select mood
	Menu	Press	Go to next menu
Navigation	Device Status Page	Left/Right	Device Control Page (Gp 1-5 Gp 6-10)
	Device Status Page	Down	Show system date and time
	Device Status Page	Press	Go to Menu
	Device Status Page	Up	Cancel current control process
	Menu	Up/Down	Scroll menu items
		Press	Go to next menu
			Select current menu items
Number	Device Status Page	Press	Control a ON/OFF of device in group
	Menu	Press	Enter dimmer Level control page when all the device in group are dimmer
All OFF	Device Status Page	Press	Turn OFF all the devices
	Edit Name	Press	change case
All ON	Device Status Page	Press	Turn ON all the devices
	Edit Name	Press	Backspace

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Processing
Key Down Enable
System Clock Not Set
Key Up Enable
Battery Level
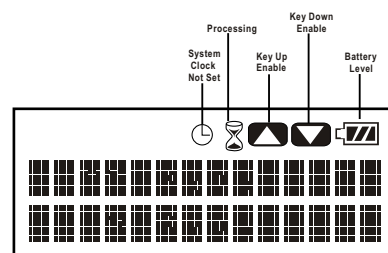
3.2 LCD Display Icons

Icon	Display	Indication
System Clock Not Set	(Flashing)	The system clock is not set
Processing		Processing request, busy
Key Up Enable/ Key Down Enable		Operation of navigation button up and down is enabled
Battery Level		Battery full
		Battery half
		Battery Low
		Need to replace battery immediately

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4.1 Two Gang Light switch

Cover
On/Off button 1
On/Off button 2
LED indicator
LED indicator

Screw holes
CO-ORDINATOR
STATUS RESET CONN.
Reset button
Connector for initial setup
Refer to Section 5
Fuse
Screw holes
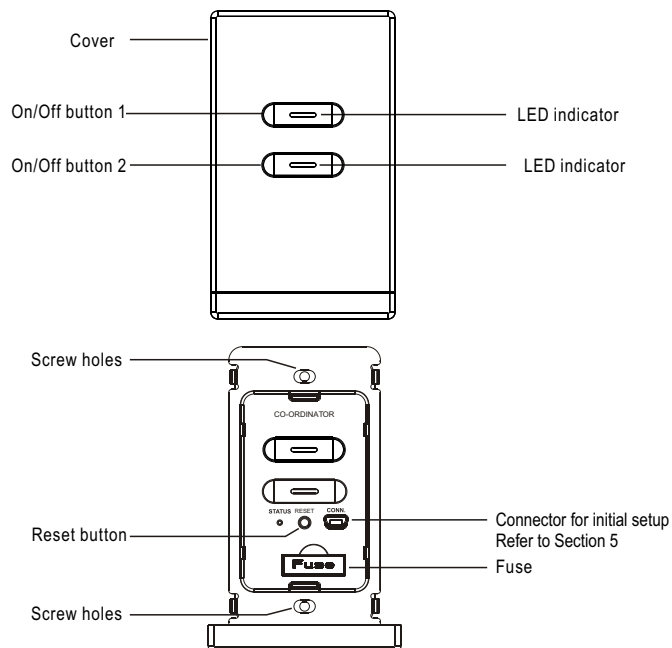
Remarks : 1. For one gang light switch , same as above but only have button 1.
2. For dimmer, same as above but △ and ▽ are printed on the cover, to indicate up and down function of the dimmer buttons

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4.1 Two Gang Light switch

Wiring Diagram

N
LOAD 1
LOAD 2

Load 1
Load 2

Neutral
Live

Wall Box

Light 2

Neutral
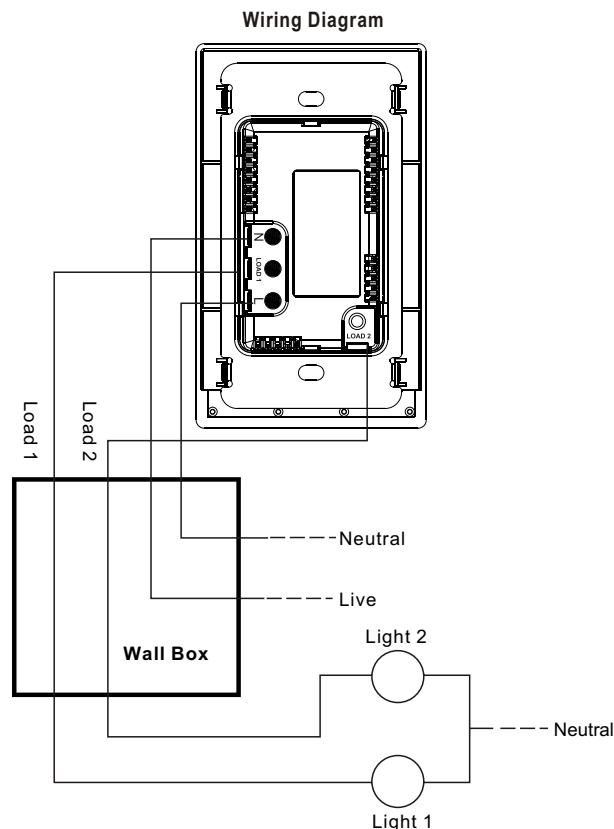
Light 1

Remarks : for one gang light switch and Dimmer, same as above but only one load can be connected

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4.2 AC socket

Cover

On/Off button

LED indicator

Screw holes

CONN.

STATUS

RESET

Connector for initial setup
Refer to Section 5

Reset button

Fuse

Fuse

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Wiring Diagram

N

Live

Neutral

Earth

Wall box

Live   Neutral   Earth
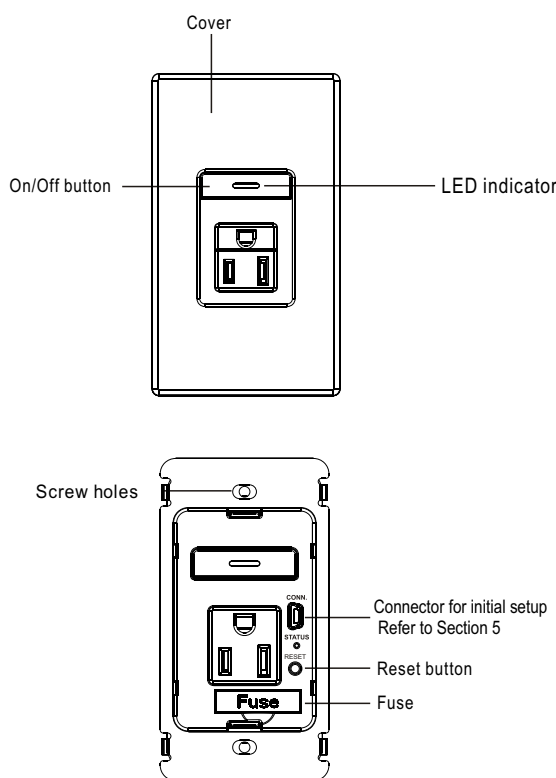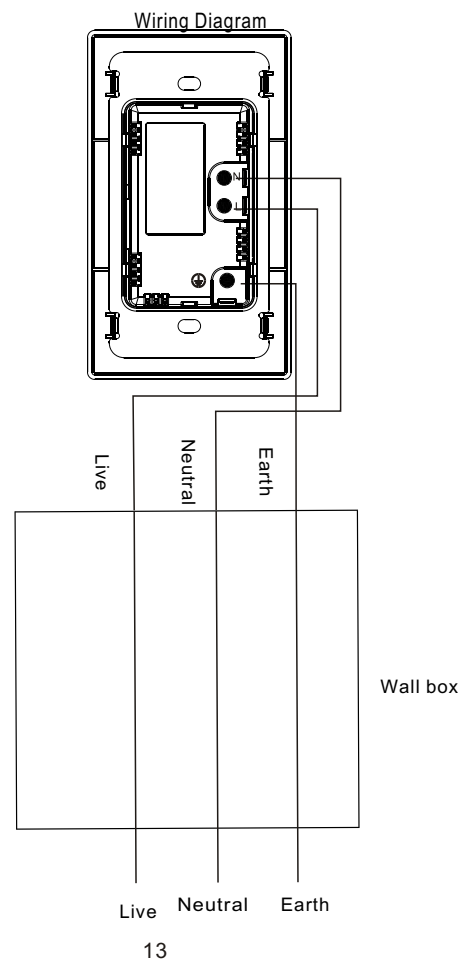
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5. INSTALLATION

Coordinator : It is recommended to be installed at the center of the whole system.

Other device: During installation, user shall check the signal coverage of the location for installation

5.1 INSTALLATION METHOD

a) .Always turn off the power source at the Miniature Circuit Breaker (MCB) before installation, maintenance or servicing of light fittings

ON ON ON   ON ON ON   ON ON
OFF OFF OFF OFF OFF OFF OFF OFF

b) .Loosen the screws of the original wall switch, remove the switch and disassemble the wiring.
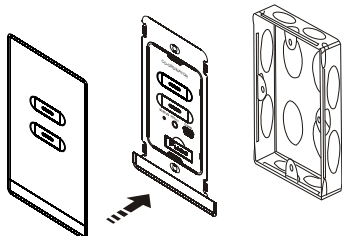
C) .Connect the main power cable to the Live and Neutral terminals at the rear cabinet of the devices. Then connect the load cable to the Load terminals
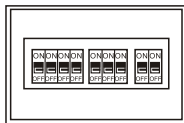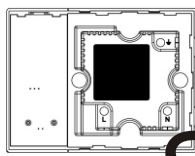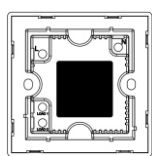
One gang, Two gang light switch
Or dimmer

AC socket

Sk

* Please Refer To Appendix 12.4 For The Wire Specification *

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5. INSTALLATION

d) . Fasten the screws of all terminals and check that the wires are properly secured

e) . Retrofit the switch into the standard switch box and mount it on the wall by fastening the two screws at the rear of the switch box
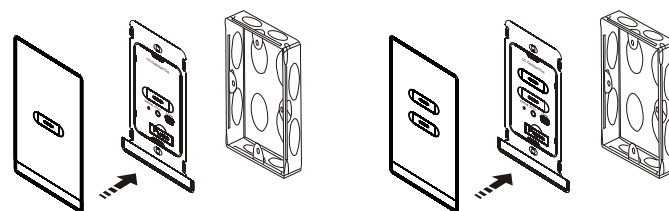
f) . Pre-program the system according to the procedures indicated in section 6 to 11

g) . Clip the Cover Plate of the switch , Dimmer or AC socket back in place
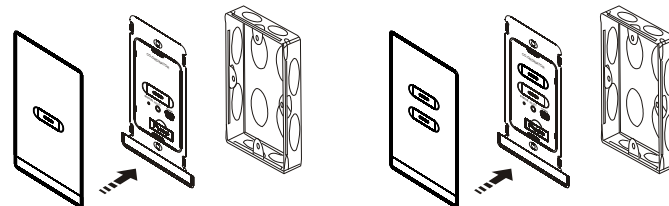
Remarks: in the following sections, you will be required to connect the provided cable to connect to the USB shape connector of the light switch or AC socket or Dimmer. Please use a screw driver to open the connector cover. The following diagram is for CG100S2, do the same for CG100C, CG100S1, CG100DM.

CO-ORDINATOR

STATUS RESET CONN.

Fuse

15
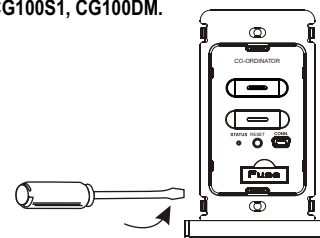
This section provides information for user to link up their CG100 devices to form a wireless network. The device configuration is fundamental process for wireless control of each CG100 device. User is required to configure the Coordinator (CG100C) primarily before configurating the other CG100 devices. Also, the system allows only ONE Coordinator (CG100C) is configured in the network. The procedures to configure the coordinator and the other CG100 devices are illustrated in following sections.

6.1 Coordinator
To configure the coordinator, perform the following steps.

1 -Power up the Coordinator (CG100C) and Wireless remote controller(CG100R).
2 -Connect the Wireless remote controller to the Coordinator through the provided cable.
3 -Press the "Navigation" button of the Wireless remote controller to enter Menu, and then scroll to "Dev. Manager" of the Menu.
4 -Press "Yes" button to enter "Dev. Manager" Menu, and then scroll to find "Config Device".
   (Note: All the device in system need to re-configure if the Coordinator is configured)
5 -Press "Yes" button to configure the Coordinator.
   (Note: The icon ⌛ is indicating that Wireless remote controller is configuring the Coordinator)
   (Note: The process to configure coordinator may take a minute)
6 -When the coordinator is configured successfully, the Wireless remote controller will show "Success".
During the configuration of Coordinator, if "Fail" or "Device Not Found" is shown on the display, please check the power of the Coordinator and the connection between the Coordinator and Wireless remote controller. Then perform step 1 to step 5 again.

```
Main Menu
5.Dev Manager
```
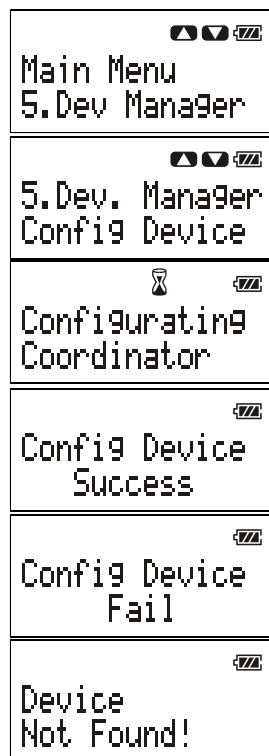
```
5.Dev. Manager
Config Device
```

```
Configurating
Coordinator
```

```
Config Device
Success
```

```
Config Device
Fail
```

```
Device
Not Found!
```

6.2 Device
When the Coordinator (CG100C) is configured successfully, user may configure other CG100 devices to establish network connection with the Coordinator. To achieve the best system performance, user is strongly advised to test the system coverage of the location that is planned to install the CG100 devices. On the other hand, when a CG100 device is configured successfully, the system coverage will be increased by the newly added CG100 device (Figure 6-1).

Therefore, user is strongly recommended to install and configure the CG100 devices which are close to the Coordinator firstly for extending the system coverage for other CG100 devices which are far from the Coordinator. The procedures to test the system coverage and to configure the CG100 devices are illustrated in Section 6.2.1 and Section 6.2.2.
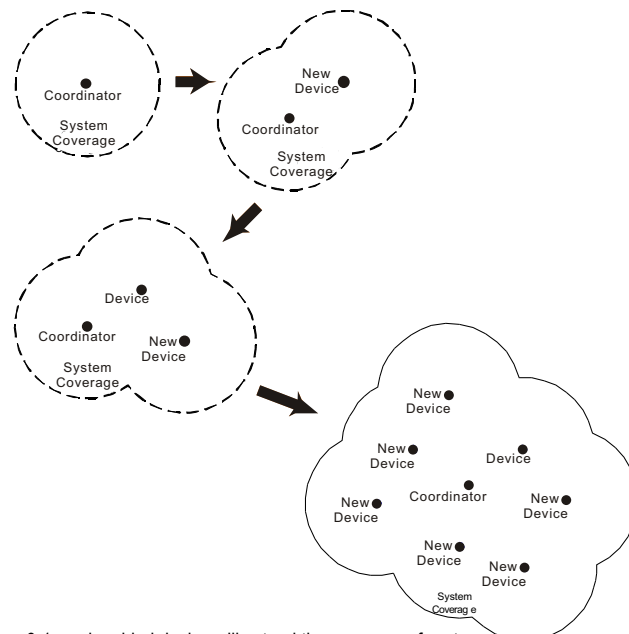
Figure 6-1 newly added device will extend the coverage of system.

6.2.1 Test Converge
To test the system coverage before configurating a new device, perform following steps

1 -Place the Wireless remote controller (which is used to configure the Coordinator before) to the location which is planned to install the new device.
2 -Press the "Navigation" button to enter Menu, select "Dev. Manager", and then go to "Test Coverage" and press "Yes".
(Note: The icon ⌛ is indicating the Wireless remote controller is testing the network coverage.)
3 -After several second, the testing result will show on the screen.
If the result is either Excellent, Very Good, Good or Acceptable, user can install the new device to the tested location. Otherwise, user may need to change the installation location

```
Main Menu
5.Dev Manager
```

```
5.Dev. Manager
Test Coverage
```

```
Test Coverage
Pls Walt...
```

```
Sys Coverage
Excellent
```

```
Sys Coverage
Very Good
```

```
Sys Coverage
Good
```

```
Sys Coverage
Acceptable
```

```
Sys Coverage
Unacceptable
```

```
Sys Coverage
No Signal
```
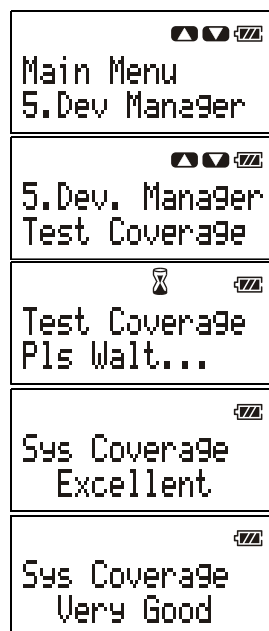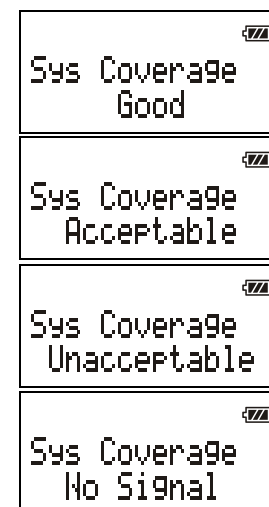
After finding a correct location for device installation, user may install the new CG100 device to such location and prepare to configure the new device.

6.2.2 Configuration
To configure a new CG100 device, perform following steps.
1 - Power up the new CG100 device.
2 - Connect the Wireless remote controller (which is used to configure the Coordinator before) to the new device through the provided cable.
3 - Press the navigation button to enter Menu, then select "Dev. Manager" and go to "Config Device".
4 - Press "Yes" button to configure the new device.
   (Note: The icon ⌛ is indicating the new device is trying to connect to the network).
5 - If the device is configured successfully, the wireless remote controller will show "Config Device Success".
   During the configuration of new device, if "Fail" or "Device Not Found" is shown by wireless remote controller, please check the power of the new device and the connection between the new device and wireless remote controller. Then perform step 1 to step 4 again.

```
▲▼◀▆
Main Menu
5.Dev Manager
```

```
▲▼◀▆
5.Dev. Manager
Config Device
```

```
⌛        ◀▆
Configurating
Device
```

```
          ◀▆
Config Device
   Success
```

```
          ◀▆
Device
Not Found
```

```
          ◀▆
Config Device
     Fail
```

Repeat steps stated in Section 6.2.1 and Section 6.2.2 to install the rest of the devices

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6.3 Wireless Remote Controller
During the configuration of coordinator, the wireless remote controller will be self-configured automatically. User may use such wireless remote controller to configure other new device in the network. On the other hand, when there are more than one wireless remote controller within the system, user shall configure the other wi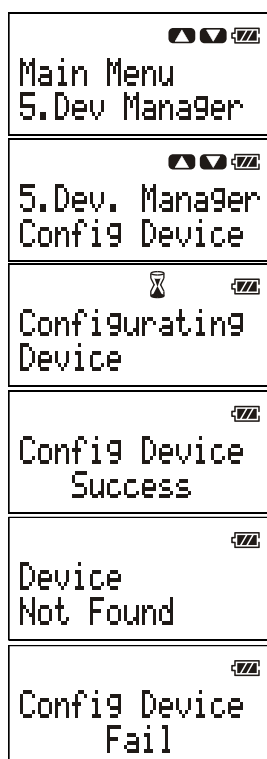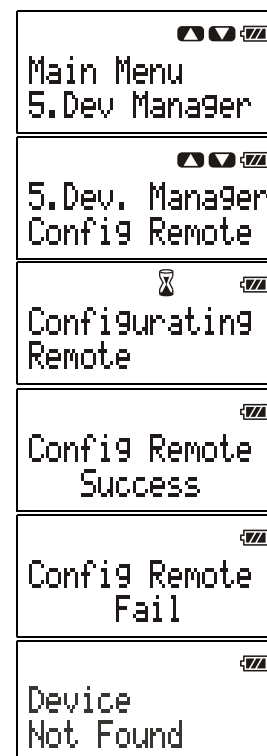reless remote controller (which are not used to configure coordinator) manually before using the wireless remote controller. To configure the handheld remote manually, perform following steps.

1 - Connect the new wireless remote controller to any successful configured CG100 Coordinator/device through the provided cable.
2 - Press the navigation button to enter Menu, then select "Dev. Manager" and go to "Config Remote".
3 - Press "Yes" button to configure the wireless remote controller.
4 - When the wireless remote controller is configured successfully, the wireless remote controller will show "Config Remote Success'.
During the configuration of wireless remote controller, if "Fail" or "Device Not Found" is shown by the wireless remote controller, please check the power of the Coordinator/device and the connection between the Coordinator/device and wireless remote controller. Then perform step 1 to step 3 again

```
▲▼◀▆
Main Menu
5.Dev Manager
```

```
▲▼◀▆
5.Dev. Manager
Config Remote
```

```
⌛        ◀▆
Configurating
Remote
```

```
          ◀▆
Config Remote
   Success
```

```
          ◀▆
Config Remote
     Fail
```

```
          ◀▆
Device
Not Found
```

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After the CG100 devices are installed and configured, user may assign a corresponding button (1-10) on Wireless remote controller to control one or more devices (maximum three), which is called group control. The procedures of adding device to a group and controlling grouped devices are illustrated in Section 7.1 and Section 7.2 - 7.3 respectively.

7.1 Add Device to Group
To add device to group control, perform following steps.
1 - Connect the Wireless remote controller (which is configured before) to the desired device (eg. One-gang Switch, Two-gang Switch, Dimmer Switch, Socket, etc.) through the provided cable.
2 - Press the "Navigation" button to enter Menu, then select "Group Config".
   (Note: All the groups will show on the screen, user may scroll to view the groups.)
   (Note: If there is/are device(s) added to the group, the Wireless remote controller will show the name of the group. eg. The default group name of the first group is "Group 1".)
   (Note: If there is no device added to the group, the Handheld will show "(Empty)".)
3 - Press "Yes" button to select the desired group.
   (Note: If there is no device added to the group, the Handheld remote will show "No Device".)
   (Note: If there is/are device(s) added to the group, the Wireless remote controller will show the name of the device.)
4 - Scroll down to find "Add Device"
   (Note: If there are three devices already added to the group, the "Add Device" function will be disabled and user may not found such function within the group.)
5 - Press "Yes" button to add device
   The Wireless remote controller will show "Press Desired Device", and the status LED of connected device will keep flashing.
6 - Press the desired device control button on the device to add the device to the group.

```
▲▼◀▆
Main Menu
3.Group Config
```

```
▲▼◀▆
Select Group
1.Group1
```

```
▲▼◀▆
Select Group
1.(Empty)
```

```
▲▼◀▆
Group 1
No Device
```

```
▲▼◀▆
Group 1-1
Light SW 1
```

```
▲▼◀▆
Group 1-1
Add Device
```

```
⌛        ◀▆
Press Desired
Device
```

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For example, when the Wireless remote controller is connecting with the Two-gang Switch and user press the second button of the switch, the device control function of the second button of the switch will be added to the group.

```
▲▼◀▆
Add Device
   Success
```

7 - When the device is added to the group successfully, the Wireless remote controller will show "Add Device Success"
If "Fail" or "Device Not Found" is shown on the Wireless remote controller during the above process, please check the power of the Coordinator/device and the connection between the Coordinator/device and Wireless remote controller. And you can also check the memory information of Wireless remote controller(see Section 9.4). Then perform step 1 to step 6 again.

7.2 On/OFF Control
After the devices are added to different groups, user may control the group of device(s) through a single button (1 - 10 buttons) on the Wireless remote controller.

Important: Please ensure the wireless remote controller is within the system coverage before controlling any device.

Following examples show the procedures to control a group of device.
Press and hold the "Back" button to exit the menu and show the device status page.

```
          ◀▆
Gp 1 2 3 4 5
   ⫶◉⫶ ⫶◖⫶◌ ◌ ▶
```
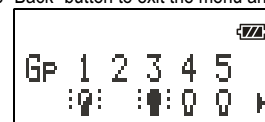
From the above example of device status page:
         Group 1: Device(s) is/are HALF ON
         Group 2: No device in Group 2
         Group 3: Device(s) is/are ON
         Group 4: Device(s) is/are OFF
         Group 5: Device(s) is/are OFF

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User can use the "Navigation" button and push to right to show the status of group 6 to 10.

```
                        ▨
Gp 6 7×8 9 10
◀  Ọ ⦙♦⦙⦙♦⦙⦙♥⦙ Ọ
```
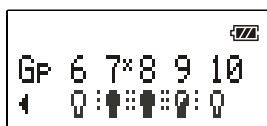
From the above example of device status page:

        Group 6: Device(s) is/are OFF
        Group 7: Device(s) is/are ON, and the timer function of one or
                    more device(s) within group 7 is/are enabled
                    (see Chapter 10).
        Group 8: Device(s) is/are ON
        Group 9: Device(s) is/are HALF ON
        Group 10: Device(s) is/are OFF

User may press any button 1-10 on Wireless remote controller to turn ON/OFF of the device. For example, the statu(s) of device(s) in group 8 is/are ON. When user presses button "8" on Wireless remote controller, the Wireless remote controller will turn OFF all the devices in group 8.After all the devices in group 8 are OFF, the status of devices will feedback to wireless remote controller and the status of group 8 will be changed from ♦ to Ọ

Another example, the statu (s) of device(s) in group 9 is/are HALF ON. When user presses button "9" on Wireless remote controller, the Wireless remote controller will turn OFF all the devices in group 9.
After all the devices in group 9 are OFF, the status of devices will feedback to Wireless remote controller and the status of group 9 will be changed from ♥ to Ọ .

7.3 Dimmer Level Control
When all the devices within a group are dimmers (CG100DM), user may set an exact dimming level to control the dimmers. Following example show the procedures to set dimming level of a group of device.
Press and hold the "Back" button to exit the menu and show the device status page.
Assume all the devices in group 3 are dimmers, press the button "3" to enter dimmer level control page.

```
                   ▲▼ ▨
Dimmer
      < 50% >
```
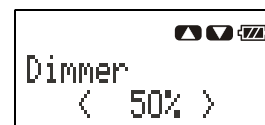
Dimmer level control:
Left: Dim-down.
Right: Dim-up
Up: Turn ON (100%)
Down: Turn OFF (0%)

7.4 Get Status
User may update the status of devices in device status page after the remote is powered ON or wake-up. Following example show the procedures to get the current status of devices of in groups.
Important: Please ensure the Wireless remote controller is within the system coverage before getting status of devices.
Press and hold the "Back" button to exit the menu and show the device status page
Press the "Back" button to update status.

```
                        ▨
Gp 1 2 3 4 5
   ⦙♥⦙ ⦙♦⦙Ọ Ọ
```

7.5 Delete Device
To delete a device in a group, perform following steps.
1- Press the "Navigation", button to enter Menu, then select "Group Config", select the target group and select the target device in the target group.
2- Press "Yes" button to enter the device option menu, and then select "Del Device".
3- Press "Yes" button again to delete the device. The Wireless remote controller will show "Confirm Del?", user may press"Yes" button again to confirm deleting the device or press "Back" button to cancel.
4- If the device is deleted successfully, the Wireless remote controller will show "Complete!".

```
              ▲▼ ▨
Main Menu
3.Group Config
```

```
                 ▼ ▨
Select Group
1.Group1
```

```
              ▲▼ ▨
Group 1-1
Light SW 1
```

```
              ▲▼ ▨
Light SW 1
Del Device
```

```
              ▲▼ ▨
Light SW 1
Confirm Del?
```

```
              ▲▼ ▨
Light SW 1
    Completed!
```

7.6 Delete All Devices in Group

To delete all devices in a group, perform following steps.

1- Press the "Navigation" button to enter Menu, then select "Group Config". Select the target group and scroll down to find "Del All Device"
2- Press "Yes" button to delete all the devices in the target group.
The Wireless remote controller will ask user to confirm deleting all the device in target group, user may press "Yes" button again to confirm deleting the devices or press "Back" button to cancel.
3- If all the devices are deleted successfully, the Wireless remote controller will show "Complete!"

```
              ▲▼ ▨
Main Menu
3.Group Config
```

```
              ▲▼ ▨
Select Group
1.Group1
```

```
              ▲▼ ▨
Group 1
Del All Device
```

```
              ▲▼ ▨
Del All Device
in Group 1?
```

```
              ▲▼ ▨
Del All Device
    Completed
```

7.7 Delete All Devices in All Groups
To delete all devices in all groups, perform following steps.
1- Press the "Navigation" button to enter Menu, then select "Group Config" and scroll down to find "Del All Gps"
2- Press "Yes" button to delete all devices in all groups. The Wireless remote controller will show "Del All Device in Groups?", User may press "Yes" button again to confirm deleting the devices or press "Back" button to cancel.
3- If all the devices are deleted successfully, the Wireless remote controller will show "Complete!"

7.8 Advanced Function

7.8.1 Edit Group Name
To edit the name of a group, perform following steps.
1- Press the "Navigation" button to enter Menu, then select "Group Config" and select the target group, then scroll down to find "Edit Name"
2- Press "Yes" button to edit the name of selected group.
"Left/Right" buttons: Change the position of cursor
"ALL OFF" button" Change the case (a/A/1)
"ALL ON" button: Backspace
"Yes" button: Save the name
"Back" Button: Cancel edit name

```
Main Menu
3.Group Config
```

```
3.Group Config
Del All Gps
```

```
Del All Device
in Groups?
```

```
Del All Device
  Completed!
```

```
Main Menu
3.Group Config
```

```
Group 1
Edit Name
```

```
Edit Name
[Group 1    ] A
```

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7.8.2 Show Device Address
To view the unique address of the device, perform following steps.

1- Press the "Navigation" button to enter Menu, then select "Group Config", select the target group and select the target device in the target group
2- Press "Yes"button to enter the device option menu, and then select "Show Address"
3- Press "Yes" button again show the unique address of all the device.

```
Main Menu
3.Group Config
```

```
Select Group
1.Group1
```

```
Group 1-1
Light SW 1
```

```
Light SW 1
Show Address
```

```
Light SW 1
CCDDEEFFC00-1
```

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7.8.3 Edit Device Name
To edit the device name of grouped device, perform following steps
1- Press the "Navigation" button to enter Menu, then select "Group Config", select the target group and select the target device in the target group.
2- Press "Yes" button to enter the device option menu, and then select "Edit Name".
3- Press "Yes" button to edit the name of selected device.
"Left/Right" buttons: Change the position of cursor
"ALL OFF" button" Change the case (a/A/1)
"ALL ON" button: Backspace
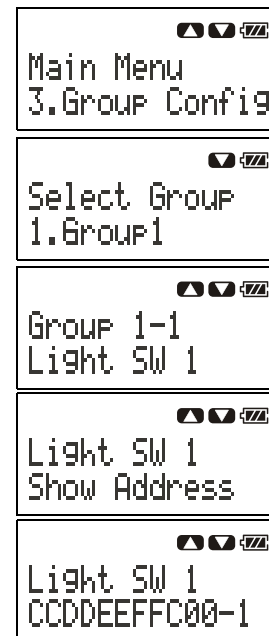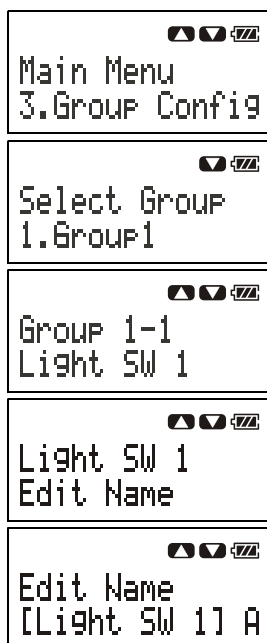"Yes" button: Save the name
"Back" Button: Cancel edit name

```
Main Menu
3.Group Config
```

```
Select Group
1.Group1
```

```
Group 1-1
Light SW 1
```

```
Light SW 1
Edit Name
```

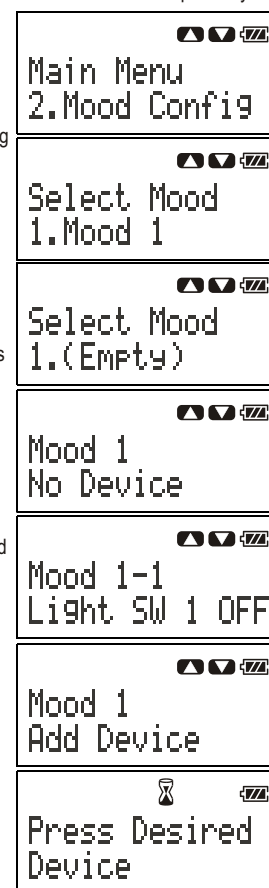```
Edit Name
[Light SW 1] A
```

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# 8. Mood Control (Scenario)

After the CG100 devices are installed and configured, user may add devices to different scenario (Mood 1 to Mood 5) for mood control. The procedures of adding device to Mood and controlling devices by Mood are illustrated in Section 8.1 and Section 8.2-8.3 respectively.

**8.1 Add Device to Mood**
To add a device to a mood control, perform following steps.
1- Connect the Wireless remote controller(which is configured before) to the desired device (eg. One-gang Switch, Two-gang Switch, Dimmer Switch, Socket, etc.) through the provided cable.
2- Press the "Navigation" button to enter Menu, then select "Mood Config".
(Note: All the moods will show on the screen, user may scroll to view the moods.)
(Note: If there is any device added to the mood, the Wireless remote controller will show the name of the mood. Eg. The default mood name of the first mood is "Mood 1")
(Note: IF there is no device added to the mood, the Handheld will show "(Empty)".)
3- Press "Yes" button to select the desired mood.
(Note: If there is no device added to the mood, the Wireless remote controller will show "No Device".)
(Note: If there is/are device(s) added to the mood, the Wireless remote controller will show the name and corresponding action of the device.)
4- Scroll down to find "Add Device"
5- Press "Yes" button to add device.
The Wireless remote controller will show "Press Desired Device", and the status LED of connected device will keep flashing
6- Press the desired device control button on the device to add the device to the mood.
For example, when the Wireless remote controller is connecting with the Two-gang Switch and user press the second of the switch, the device control function of the second load of the switch will add to the mood.
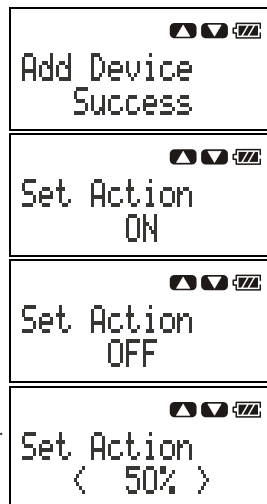
```
Main Menu
2.Mood Config
```

```
Select Mood
1.Mood 1
```

```
Select Mood
1.(Empty)
```

```
Mood 1
No Device
```

```
Mood 1-1
Light SW 1 OFF
```

```
Mood 1
Add Device
```

```
Press Desired
Device
```

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8. Mood Control (Scenario)

7- When the device is added to the mood successfully, the Wireless remote controller will show "Add Device Success".

8- After all device is added to the mood successfully, the Wireless remote controller will ask user to set the action of the device during mood control.
(Note: If the device is a dimmer (CG100DM), user may also set the dimming level of the dimmer during mood control.)
(Note: During setting the action of the device, the Wireless remote controller can also control the device with the setting action for user to tune the mood.)

If "Fail" or "Device Not Found" is shown by the Wireless remote controller during the above process, please check the power of the Coordinator/device and Wireless remote controller. And also please check the memory information of Handheld remote (see Section 9.4). Then perform step 1 to step 8 again.

```
▲▼▨
Add Device
   Success
```

```
▲▼▨
Set Action
     ON
```

```
▲▼▨
Set Action
    OFF
```

```
▲▼▨
Set Action
  <  50% >
```

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## 8. Mood Control (Scenario)

**8.2 Control Devices**
After the devices are added to different moods, user may control the devices through the mood control function of Wireless remote controller.
**Important" Please ensure the Wireless remote controller is within the system coverage before controlling any device.**
Following examples show the procedures to apply mood control.
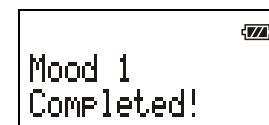Press and hold the "Back" button to exit the menu and show the device status page.

```
▨
Gp 1 2 3 4 5
 :♀:  :♦:♀ ♀ ▸
```
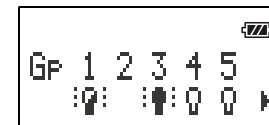
Press"Yes/Mood" button to enter mood control page.
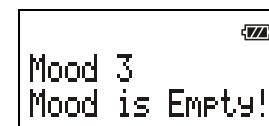
```
▨
    Mood
```
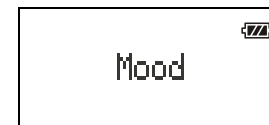
Press button "1-5" to select the desired mood.
After all the device in the selected mood are controlled, the Wireless remote controller will show "Completed!"

```
▨
Mood 1
Completed!
```

If there is no device in the selected mood, the Wireless remote controller will show "Mood is Empty".

```
▨
Mood 3
Mood is Empty!
```

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8. Mood Control (Scenario)

8.3 Delete Device
To delete a device in a mood, perform following steps.
1- Press the "Navigation" button to enter Menu, then select "Mood Config". Select the target mood and select the target device in the target mood.
2- Press "Yes" button to enter the device option menu, and then select "Del Devices".
3- Press "Yes" button again to delete the device. The Wireless remote controller will show "Confirm Del?", User may press "Yes" button again to confirm deleting the devices of press "Back" button to cancel.
4- If the device is deleted successfully, the Wireless remote controller will show "Complete!"

```
▲▼▨
Main Menu
2.Mood Config
```

```
▲▼▨
Select Mood
1.Mood 1
```

```
▲▼▨
Mood 1-1
Light SW 1 OFF
```

```
▲▼▨
Light SW 1
Del Device
```

```
▲▼▨
Light SW 1
Comfirm Del?
```

```
▲▼▨
Light SW 1
  Completed!
```

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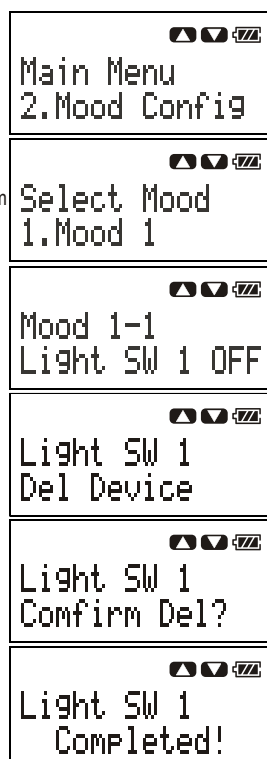
8. Mood Control (Scenario)

8.4 Delete All Devices in All Groups
To delete all devices in all mood, perform following steps.
1- Press the "Navigation" button to enter Menu, then select "Mood Config", select the target mood and scroll down to find "Del All Device".
2- Press "Yes" button to delete all the devices in the target mood.
The Wireless remote controller will ask user to confirm.
Press "Yes" button again to confirm deleting the devices or press "Back" button to cancel.
3- If all the devices are deleted successfully, the Wireless remote controller will show "Complete!'

```
▲▼▨
Main Menu
2.Mood Config
```

```
▲▼▨
Select Mood
1.Mood 1
```

```
▲▼▨
Mood 1
Del All Device
```

```
▲▼▨
Del All Device
in Mood  1?
```

```
▲▼▨
Del All Device
  Completed
```

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8.5 Delete All Devices in All Groups
To delete all devices in all mood, perform following steps.
1- Press the navigation button to enter Menu, then select "Mood Config" and the scroll down to find "Del All Moods".
2- Press "Yes" button to delete all devices in all moods.
The wireless remote controller will show "Del All Device in Moods?", User may press "Yes" button again to confirm deleting the devices or press "Back" button to cancel.
3- If all the devices are dele4ted successfully, the wireless remote controller will show "Complete!'

8.6 Advance Function

8.6.1 Edit Mood Name
To edit the name of a group, perform following steps.
3- Press the navigation button to enter Menu, then select "Mood Config" and select the target mood, the scroll down to find "Edit Name"
4- Press "Yes" button to edit the name of selected mood.
"Left/Right" buttons: Change the position of cursor
"ALL OFF" button: Change the case (a/A/1)
"ALL ON" button: Backspace
"Yes" button: Save the name
"Back" Button: Cancel edit name

```
Main Menu
2.Mood Config
```
```
2.Mood Config
Del All Moods
```
```
Del All Device
in Mood?
```
```
Del All Device
   Completed!
```
```
Main Menu
2.Mood Config
```
```
Mood 1
Edit Name
```
```
Edit Name
[Mood 1     ] A
```

8.6.2 Show Device Address
To view the unique address of the device, perform following steps.
1- Press the "Navigation" button to enter Menu, then select "Mood Config". Select the target mood and select the target device in the target mood.
2- Press "Yes" button to enter the device option menu, and then select "Show Address".
3- Press "Yes" button again show the unique address of the device.

```
Main Menu
2.Mood Config
```
```
Select Mood
1.Mood 1
```
```
Mood 1-1
Light SW 1 OFF
```
```
Light SW 1
Show Address
```
```
Light SW 1
CCDDEEFFC00-1
```

8.6.3 Edit Device Name

To edit the device name of device in mood, perform following steps.
1- Press the "Navigation" button to enter Menu, then select "Mood Config", select the target mood and select the target device in the target mood.
2- Press "Yes" button to enter the device option menu, and then select "Edit Name".
3- Press "Yes" button to edit the name of selected device
"Left/Right" buttons: Change the position of cursor
"ALL OFF" button: Change the case (a/A/1)
"ALL ON" button: Backspace
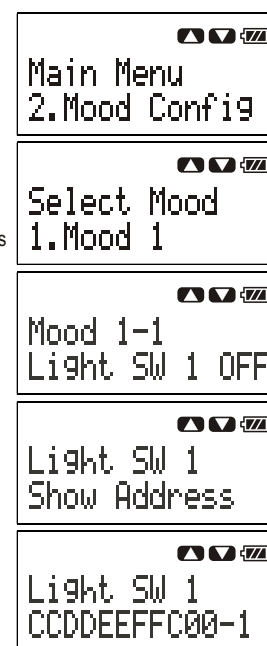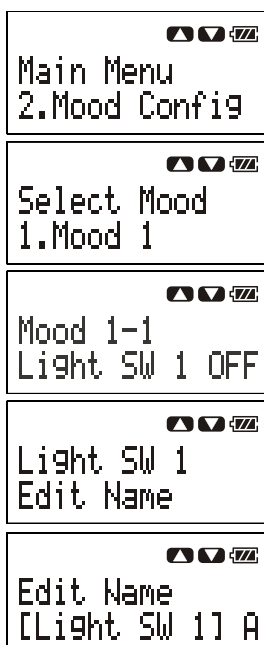"Yes" button: Save the name
"Back" Button: Cancel edit name

```
Main Menu
2.Mood Config
```
```
Select Mood
1.Mood 1
```
```
Mood 1-1
Light SW 1 OFF
```
```
Light SW 1
Edit Name
```
```
Edit Name
[Light SW 1] A
```

9.1 System Clock
User is required to set the system clock for timer control. When the system clock is not set, the icon ⏰ will keep flashing on LCD. To set the system clock, perform following steps:
1- Press the "Navigation" button to enter Menu, and then select "Setting"→"Set Clock".
(Note: Please ensure the Wireless remote controller is within the coverage of the system before setting the system clock.)
2- Use "Navigation" button and number buttons (1-10) to set the date and then press "Yes" button to continue.
3- Use "Navigation" button and number button (1-10) to set the time and then press "Yes" button to confirm.
After the system clock is set successfully, the Wireless remote controller will show "Success".
If the system clock is fail to set, please check the system coverage and ensure the Coordinator is powered ON, and then repeat step 1 to 3 again.

```
Main Menu
6.Setting
```
```
6.Setting
Set Clock
```
```
Set Date
2007/01/01
```
```
Set Time
01:01
```
```
Set Clock
Success
```
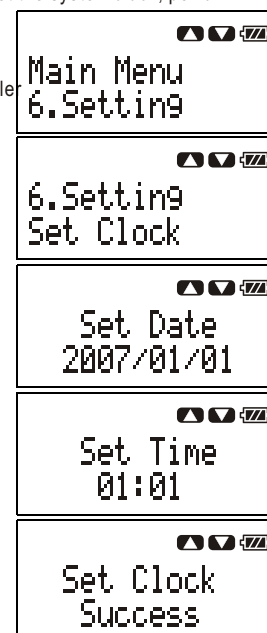
9.2 Copy Setting

You are able to copy the setting of Wireless remote controller to another Wireless remote controller through the provided cable. To copy the setting, perform follow steps:

1- Connect the source Wireless remote controller to a destination Wireless remote controller through he provided cable.
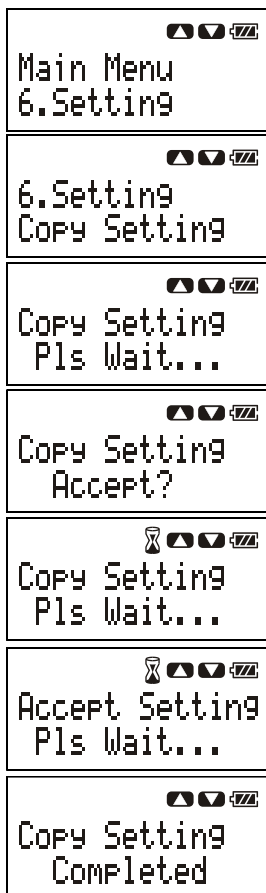2- Press the "Navigation" button to enter Menu, and then select "Setting"—►"Copy Setting" on the source Wireless remote controller.
3- Press any button on destination Wireless remote controller to wake up the remote.
4- Press "Yes" button on the source Wireless remote controller to prepare to copy setting. The destination Wireless remote controller will ask user to accept the setting.
5- Press "Yes" button on the destination Wireless remote controller to accept the setting.
6- After the setting is copied successfully, both the source and destination Wireless remote controller will show "Copy Setting Completed"

```
Main Menu
6.Setting
```

```
6.Setting
Copy Setting
```

```
Copy Setting
 Pls Wait...
```

```
Copy Setting
 Accept?
```

```
Copy Setting
 Pls Wait...
```

```
Accept Setting
 Pls Wait...
```

```
Copy Setting
 Completed
```

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9.3 Reset

User may reset the Handheld remote to factory default setting and **all the setting of the Wireless remote controller will be deleted.**
To reset the Wireless remote controller, perform following steps.
1- Press the "Navigation" button to enter Menu, then select "Setting"—►"Reset"
2- Press "Yes" button to start reset the Wireless remote controller. The Wireless remote controller will show the warning message "Reset will del all setting" and then ask user to confirm.
3- If the user confirmes to delete all the setting, press "Yes" button again to reset the Wireless remote controller. Otherwise, press "Back" button to cancel the reset.
4- After finishing reset process, the Wireless remote controller will show "Reset Success".

```
Main Menu
6.Setting
```

```
6.Setting
Reset
```

```
Reset will del
all setting
```

```
Reset
Confirm?
```

```
Reset
Success
```

41
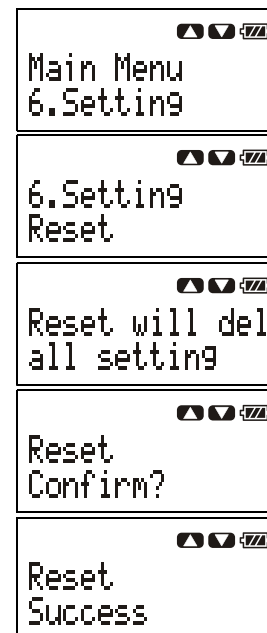
9.4 Memory Information

User may inquire the memory information of the Wireless remote controller from the setting menu ("Setting"—►"Memory info").
There are two types of memory information showing for the user-------- the" Registered Device" and "Device Added to Gps and Moods".

9.4.1 Registered Device

The Wireless remote controller can register maximum 50 devices to the memory for group or mood control. The number of device is referring to the number of "device loads" added to the Wireless remote controller.

```
Registered
Device
```

```
Total:        8
Remain:       42
```
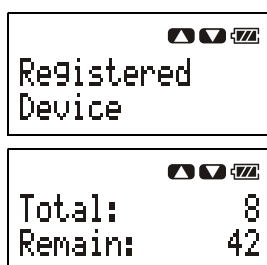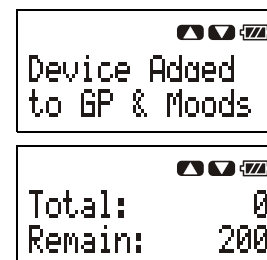
There are some examples:
When user added the load of a one-gang switch to group 1 of the Handheld remote controller,
→ **the number of registered device is 1.**
When user added the load of one-gang switch to group3, mood 1 and mood 2 of the Wireless remote controller,
→ **the number of registered device is also 1.**
When user added the "load 1" and "load 2" of a two-gang switch to group 1 of the Wireless remote controller,
→ **the number of registered device is 2.**
When user added the "load 1" of a two-gang switch to group 1 and "load 2" of the same two-gang switch to group 3 of the Wireless remote controller.
→ **the number registered device is 2.**
When user added the load of a socket to group 1 of the Wireless remote controller
→ **the number of registered device is 1.**
When user added the load of dimmer switch to group 1 of the Wireless remote controller
→ **the number of registered device is 1.**

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9.4.2 Device Added to GPs and Moods

The Wireless remote controller can be added with maximum 200 device records to the memory for group or mood control.

```
Device Added
to GP & Moods
```

```
Total:         0
Remain:      200
```

There are some examples:
When user added the load of a one-gang switch to group 1 of the Wireless remote controller,
    the number of registered device is 1.
    the number of device added to Gps and Moods is 1
When user added the load of a one-gang switch to group 1, group 3, mood 1 and mood 2 of the Wireless remote controller,
    the number of registered device is 1.
    the number of device added to Gps and Moods is 4.
When user added the both "load 1" and load2" of a two-gang switch to group 1 of the Wireless remote controller,
    the number of registered device is 2.
    the number of of device added to Gps and Moods is 2.
When user added the "load 1" of a two-gang switch to group 1 and "load 2" of the same two gang switch to group 3 of the Wireless remote controller,
    the number of registered device is 2.
    the number of device added to Gps and Moods is 2.
When user added the load of a socket to group 1 of the Wireless remote controller,
    the number of registered device is 1.
    the number of device added to Gps and Moods is 1.
When user added the load of a dimmer switch to group of the Wireless remote controller,
    the number of registered device is 1.
    the number of of device added to Gps and Moods is 1
When user added the load of a socket to all the groups (group 1 to group 10) and all the moods (mood 1 to mood 5) of the Wireless remote controller.
    the number of registered device is 1.
    the number of of device added to Gps and Moods is 15.

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9.5 Version
To view the firmware version of Wireless remote controller, perform following steps.
1- Press the "Navigation" button to enter Menu, then select "Setting"➔"About"
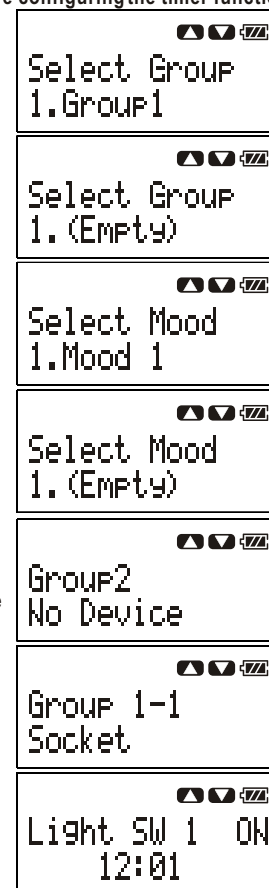2- Press "Yes" button to view the firmware verison.

```
▲▼▨
Main Menu
6.Setting
```

```
▲▼▨
6.Setting
About
```

```
▲▼▨
CG Tech.Ltd.
08/05/07 02.02
```

User is able to configure the timer function of a device after the system clock is configured. To configure the timer of the device, perform following steps.
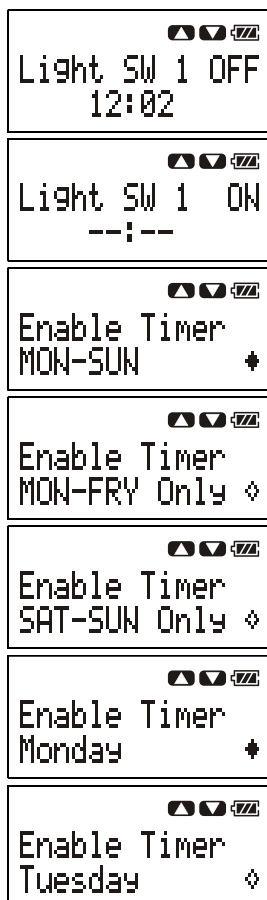**Important: Please ensure the Wireless remote controller is within the system coverage and the target device is operating before configuring the timer function.**
1- Press the Navigation button to enter Menu, and then select "Device Timer"/
   (Note: All the groups and moods will show on the screen, user may scroll to view the groups and moods.)
   (Note: If there is any device added to the group/mood, the Wireless remote controller will show the name of the group/mood.)
   (Note: If there is no device added to the group/mood, the Handheld with show "(Empty)".)
2- Press "Yes" button to select the desired group/mood.
   (Note: if there is no device added to the group, the Wireless remote controller will show "No Device".)
   (Note: If there is/are device(s) added to the group, the Wireless remote controller will show the name of the device.)
3- Press "Yes" button to select the device. The Wireless remote controller will get the timer setting of the selected device wirelessly.
4- After the timer setting of the device is obtained successfully, the Wireless remote controller will show the ON time, OFF time and weekly schedule of the device.
   When the timer setting is "--:--". Which is indicating such timer function of the device is disabled. For example, when the timer setting of a light switch is
   "Light SW 1 ON --:--"
   "Light SW 1 OFF 12:02"
   Which means the ON timer of the light switch is disabled and the light switch will only turn OFF at 12:02.

```
▲▼▨
Select Group
1.Group1
```

```
▲▼▨
Select Group
1.(Empty)
```

```
▲▼▨
Select Mood
1.Mood 1
```

```
▲▼▨
Select Mood
1.(Empty)
```

```
▲▼▨
Group2
No Device
```

```
▲▼▨
Group 1-1
Socket
```

```
▲▼▨
Light SW 1  ON
     12:01
```

5- Press "Yes" to set ON and OFF timer.
   If the timer function is disabled, press up/down button to enable the timer.
   If user wants to disable the timer function, press up/down to disable the timer.
   After the ON/OFF timer is set, press "Yes" button to send the new timer setting to the device.
6- User may also set the weekly schedule of the timer function:
   MON-SUN
   MON-FRY Only
   SAT&SUN Only
   Monday
   Tuesday
   Wednesday
   Thursday
   Friday
   Saturday
   Sunday
   Press "Yes" button to enable or disable the weekly schedule
   During setting the weekly schedule:
   ✦ - Enabled
   ✧ - Disabled

```
▲▼▨
Light SW 1 OFF
     12:02
```

```
▲▼▨
Light SW 1  ON
     --:--
```

```
▲▼▨
Enable Timer
MON-SUN       ✦
```

```
▲▼▨
Enable Timer
MON-FRY Only ✧
```

```
▲▼▨
Enable Timer
SAT-SUN Only ✧
```

```
▲▼▨
Enable Timer
Monday        ✦
```

```
▲▼▨
Enable Timer
Tuesday      ✧
```

N-Way function is a special feature of the CG100 devices. Through the N-Way configuration, user may use a CG100 device to control the load of another CG100 device wirelessly.
For example, when there is a wall light installed in the corridor and user is desired to control the wall light at both end of the corridor. User may install two one-gang switches to both end of the corridor and the wall light may connect to only one of the switch (Switch B) (see Figure 11-1).

Switch A
N-Way Controller

Wireless Control

Switch B
N-Way Device
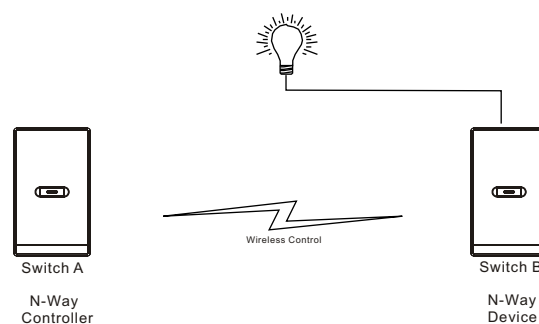
User may configure the switch A as a N-Way Controller and Switch B as a N-Way Device. After N-Way configuration, user can use the control button on both Switch A and Switch B to control the same light.

Note:
When the device is a N-Way Controller, user cannot re-configure the device as a N-Way Device before removing the N-Way function of the device.
When the device is a N-Way Device, the user cannot re-configure the device as a N-Way Controller before removing the N-Way function of the device.
To remove the N-Way function of the device, please refer to Section 11.2..

11.1 Check Device
To Check the device is configured as N-Way controller or N-Way device, perform following steps.
1- Connect the Wireless remote controller to the device through the provided cable.
2- Press the "Navigation" button to enter Menu, then select "N-Way Config"➔"Check Device".

3- Press "Yes" button to start checking the device. If the device is a N-Way controller, the Wireless remote controller will show "Device is N-Way Control" If the device is a N-Way device, the Wireless remote controller will show "Device is N-Way Device" If the device is not a N-Way controller or device, the Wireless remote controller will show "Device is Not N-Way"

```
▲▼▨
Main Menu
4.N-Way Config
```

```
▲▼▨
4.N-Way Config
Check Device
```

```
▨
Device is
N-Way Control
```

```
▨
Device is
N-Way Device
```

```
▨
Device is
Not N-Way
```
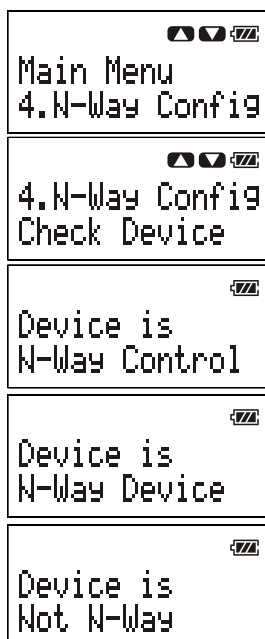
11.2 Remove N-Way Function of Device
To remove the N-Way function of a N-Way controller or N-Way device, perform following steps.
1- Connect the Wireless remote controller to the device through the provided cable
2- Press the "Navigation" button to enter Menu, then select "N-Way Config"➔ "Remove N-Way". If the N-Way function is removed successfully, the Wireless remote controller will show "N-Way Config Success".

```
▲▼▨
Main Menu
4.N-Way Config
```

```
▲▼▨
4.N-Way Config
Remove N-Way
```

```
▨
N-Way Config
Success
```
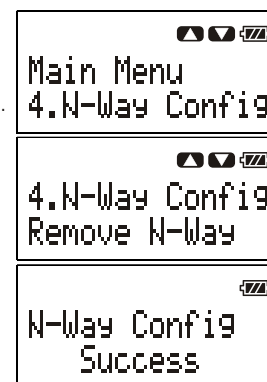
11.3 Configure the N-Way Function
To configure the N-Way function, perform following steps.
1- Connect the Wireless remote controller to the desired N-Way controller through the provided cable.
2- Press the "Navigation" button to enter Menu, then select "N-Way Config"➔"Config Device". The Wireless remote controller will show "Press Desired Controller", and the status LED of connected device will keep flashing. User may press the desired device control button on the device to configure the control button with N-Way Controller function. When the desired control button is pressed, the Wireless remote controller will show "Controller set Finished"
3- After configured the desired controller, the Wireless remote controller will show "Pls connect other Device" and "Then Press "OK" Or "Yes"".Connect the Wireless remote controller to the desired N-Way device through the provided cable and the press "Yes"button to configure the N-Way device.
4- The Wireless remote controller will show "Press Desired Device", and the status LED of connected device will keep flashing. User may press the desired device control button on the device to configure the load of device to be a N-Way device. When the desired control button is pressed, the Wireless remote controller will show "Device Set Finished".

```
▲▼▨
Main Menu
4.N-Way Config
```

```
▲▼▨
4.N-Way Config
Config Device
```

```
▲▼▨
Press Desired
Controller
```

```
▲▼▨
Controller
Set Finished
```

```
▲▼▨
Pls Connect
Other Device
```

5- After configured the N-Way Device, the N-Way controller will try to communicate with the N-Way device wirelessly. If the N-Way controller can communicate with the N-Way device successfully, the Wireless remote controller will show "N-Way Config Success". Otherwise, the Wireless remote controller will show "N-Way Config Fail".
If N-Way function is fail to configure, please check:
- Whether the device is a N-Way device but want to configure as N-Way controller.
- Whether the device is a N-Way controller but want to configure as N-Way device.
- The power of the devices.
- The cable connection between the device and Wireless remote controller.
- The wireless connection between two device. (User may check the wireless connection by using the Wireless remote controller to control the device which is desired to configure as N-Way device at the location of the device which is desired to configure as N-Way controller.)

```
▨
N-Way Config
Success
```

```
▨
N-Way Config
Fail
```
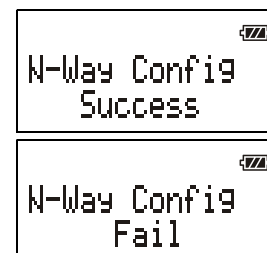
12.1 Specifications--Devices

Specification \ Product	COORDINATOR (1 Gang switch) CG201C	1 Gang Switch CG201S1	2 Gang Switch CG201S2	AC socket CG201SK	Dimmer CG201DM
Voltage	220 to 240Vac				
Maximum Load	2000W	2000W	1000W x 2	13A	400W
Line Frequency	50 Hz				
Communication standard	IEEE802.15.4 (Zigbee Technology)				
Bi-directional control	Yes				
Radio Frequency	2.4GHz				
Operating Temperature	0 to 40 degC				
Operating Humidity	0% to 95%				
Mounting Centers	60.3mm				
Fuse Type and Rated Current	10Amp/250V Ceramic Tube Fuse (Time Lag)	10Amp/250V Ceramic Tube Fuse (Time Lag)	10Amp/250V Ceramic Tube Fuse (Time Lag)	BS1362 13A Fuse	5Amp/250V Ceramic Tube Fuse (Time Lag)

Load type	Detail					
Incandescent Lamp	---	Yes	Yes	Yes	Yes	Yes
Fluorescent Lamp	Power Factor ≥0.85	Yes	Yes	Yes	Yes	Not applicable
Low voltage Halogen lamp(12V) (with Transformer)	Power Factor ≥0.85	Yes	Yes	Yes	Yes	Not applicable
Low voltage Halogen lamp(12V) (with Dimmable Electronic Transformer)	Power Factor ≥0.85	Yes	Yes	Yes	Yes	Yes
Halogen lamp (220V)	Power Factor ≥0.85	Yes	Yes	Yes	Yes	Yes
Energy Saving Lamp	Power Factor ≥0.85	Yes	Yes	Yes	Yes	Not applicable
Campact Fluorescent lamp	Power Factor ≥0.85	Yes	Yes	Yes	Yes	Not applicable
Cold Cathode Neon lamp	Power Factor ≥0.85	Yes	Yes	Yes	Yes	Not applicable

12.2 Specifications Wireless Remote Controller

Specification \ Product	Wirless Remote Controller
Control Function	On/off Switch, Dimmer, All on, All off, Device excluding capability in All on/ All, Scenario setting, Timer, Realtime Time clock, Device setting, Networking, Bi-directional control, Device status monitoring, Device Grouping, Multi-way switch setting, Device name Editing, Remote name Editing. Navigation control setting
Scenario setting	5 Mood Settings
LCD display	Dot matrix LCD distpaly, STN type
LCD backlight	White colour
Battery level indicator	4 levels
Timer function	Yes
Device control	Up to 50
Battery	2 x AAA Alkaline Batteries
Transmission distance	Over 60M in open area, (Transmission distance can be extended if more devices are installed - -Wireless Networking Technology)
Communication Standard	IEEE802.15.4 (Zigbee Technology)
Bi-directional control	Yes
Radio Frequency	2.4GHz
Operating Temperature	0 to 40 degC
Operating Humidity	0% to 95%

12.3 TroubleShooting Guide

Symptom	Possible Cause	Solution
Main Light or LED indicator does not turn ON	1.Wires are not properly secured or connected in the terminals	Make sure the wires are secured, screws are fastened and the Live, Neutral or load wires have been connected to the correct terminals
	2.MCB is OFF or has been tripped	Switch on the MCB . If a breaker continually trips, contact a registered electrician to determine the cause of the problem.
	3.Fuse has blown out	Replace the fuse with one of the same rating
	4.Lightbulbs are not properly installed or lightbulbs have burned out	Reinstall the lightbulbs or replace the light bulbs
	5.The Service switch is in off position	Remove the cover plate, and slide the service switch to ON position
	6.Unknown	Remove the cover plate, push the Reset button once
	7.Improper loads are connected	Refer to section 12.1, and check the load type
Devices is not responding to the Wireless Remote Controller	1.Not programmed properly	Refer to "Installation of System" section of this manual
	2.Battery of remote control is too low	Replace new battery for Remote
	3.AC Voltage is too low	Make sure supply voltage is within the specification
	4.Wiring is not correct	Re-check wiring according to this manual
	5.Physical distance between two devices is too far.	Relocate the devices or add another device between them
	6.Remote control is too far away	Try closer location, or add one more device at boundary location to extend the control distance
	7. Unknown	Try switch off the MCB, 30 seconds later, switch On again

Unable to program	1.Provided cable is not plugged firmly	Check cable, unplug and then plug in again
	2.Battery level of Handheld Remote is too low	Replace with new battery
	3.Improper programming method	Refer to "Installation of System" section of this manual
	4.Wiring is not correct	Check wiring according to this manual
	5.Fuse is broken or not installed	Check fuse
	6.Over maximum number of devices	Maximum number of devices is 50, Maximum records is 200
	7.Service switch is in Off position	Check switch position
		Check the Memory info of Wireless Remote controller according to section 9.4

12.4

Ranges of rated currents	Rigid conductors (solid or stranded)[3]	
A	Nominal cross-sectional areas mm^2	Diameter of largest conductor mm^2
up to and including 4[1] above 4 up to and including 6 above 6 up to and including 10[2]	- From 0.75 up to 1.5 inclusive From 1 up to 2.5 inclusive	- 1.45 2.13