

HANDHELD REMOTE CONTROL





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lighting kit overview

The TCP lighting kit includes a wireless smart lighting system that helps make the lighting in your home more energy efficient and easier to manage.

The kit includes CFL light bulbs and a remote control that work together to help you manage your lighting wirelessly.

BASIC CONCEPTS OF WIRELESS LIGHTING

Before setting up your wireless lighting network, you should take a few minutes to read through these basic concepts to understand how wireless lighting works and how it is different from standard lighting. Wireless light bulbs work with your light fixtures the same way as standard light bulbs. They are different, however, in a couple of ways:

- The lighting element in the light bulb uses energy-efficient CFL technology.
- The light bulb includes wireless technology that allows the light bulb to connect to a network and be managed remotely.

Since the light bulbs can be connected to a network, you have greater flexibility in how you use them. For example, you can program your lighting network so that when you press a button upon arriving home, an entryway and a hallway light turn on. Or when you go to bed, your remote control can turn off all lights on the network.

PLANNING YOUR LIGHTING NETWORK

Whether you have only one wireless light bulb or you are replacing your entire home with wireless light bulbs, you should plan how you want the lighting on your network to behave. For example, if you only have one light bulb you might want to place it in a central location that would be optimum for turning on and off when you are away or arrive home. If you have multiple light bulbs, however, you might want to set them up in lighting groups to be able to better manage them across your home.

Note: Light fixtures that have dimmer controls are not recommended for your network light bulbs. However, they can be used if the dimmer level is set to 100%.

Lighting Groups

When organizing your network light bulbs, you can set them up into lighting groups. Then you can use your remote control to turn on and off light bulbs in selected lighting groups. A lighting group is a set of network light bulbs that you can control together through your remote control. For example, you might have a lighting group that includes light bulbs on the same floor. Or you might have a group that includes hallway and entryway lights, making it easy to turn on or off with your remote control as you arrive or leave home. All light bulbs in the same group turn on and off together and brighten or dim to the same level. Your remote control has controls for four lighting groups.

The following limitations apply when working with network light bulbs and lighting groups in a system using remote control only:

- A light bulb can belong to only 1 lighting group.
- Your remote control can control up to 4 different lighting groups. If you add additional remote controls to your network, each of them can control 4 additional lighting groups.
- The remote can control 250 light bulbs divided in any manner among the 4 different lighting groups.

Multi-bulb Light Fixtures

When installing light bulbs or setting up lighting groups, you should consider how you want multi-bulb light fixtures to behave, such as a ceiling fixture containing 2 or more bulbs. Since power to the light has to remain on (so the remote control can access the light bulb) you would use either all network light bulbs in a multi-bulb light fixture or no network light bulbs at all. If you are using network light bulbs in a multi-bulb light fixture, you should add them all to the same lighting group so that they turn on and off together (though you do not have to).

Remote Control Range

When using your remote control, you must be within range of your lighting network for the remote control to be able to control your lighting. However, this does not mean that it has to be within range of all network light bulbs. Since the light bulbs are interconnected across the network, they can pass commands to each other as long as they are within network range of each other. This means that a nearby light bulb can receive your remote control command and pass that command across the network of connected light bulbs, ultimately to a light bulb you want to control in a distant room. Because of this effect, larger homes would make better use of having more network light bulbs spread across the home, maintaining a distance that allows each light bulb to communicate with one another.

Note: Operating the remote control too close to a network light bulb could interfere with the remote control's signal. When operating the remote control, you should hold it at least 1 foot (.3 meters) away from any of your network light bulbs.

Maximum Number of Light Bulbs

You can install up to 250 light bulbs on the same network to work with your remote control.

POWER FAILURE WITH WIRELESS LIGHT BULBS

Wireless light bulbs are powered through light fixtures the same way standard light bulbs are. However, you must leave the light fixtures in the on position so that power is available when using your remote control to turn the wireless light bulbs on and off. If power is removed from a light bulb, whether from power failure or from manually turning off the light fixture, the light bulb will turn off. When power is restored, all network light bulbs affected by the power failure, regardless of whether they were previously on or off, will automatically turn on at full brightness. The affected light bulbs will maintain their previous network and lighting group settings.

Controlling Lights Without Your Remote Control

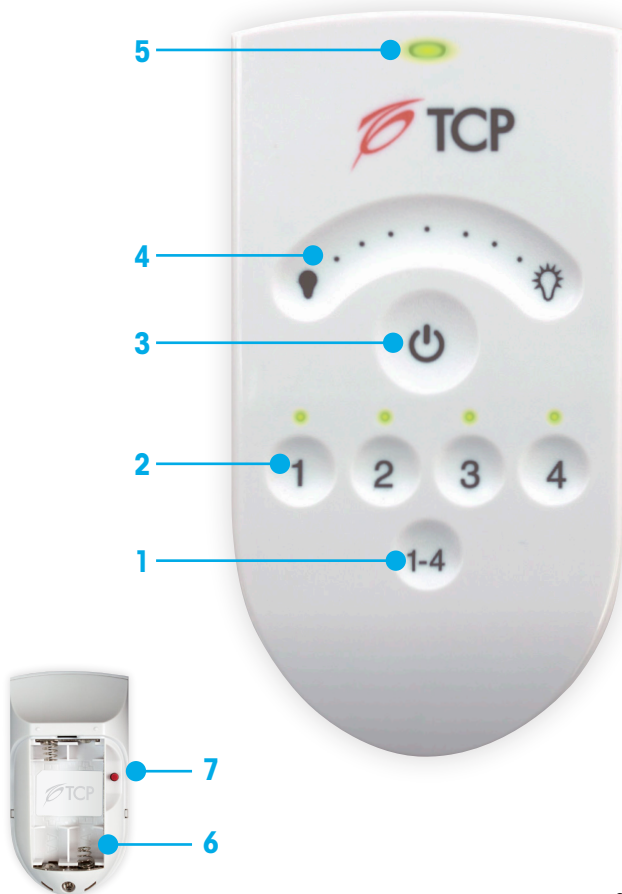
If your remote control is not available and you want to turn on a network light bulb, you can manually turn off the light fixture for 3 seconds and then turn it back on. The intentional power failure and restoration will cause the light bulb to power on. You can then wirelessly control the light later when your remote control is available.

Similarly, if you want to turn off a network light bulb without your remote control, you can manually turn off the light fixture. Remember, though, that the light bulb cannot be controlled again with your remote control until you turn power back on to the fixture.

REMOTE CONTROL OVERVIEW

The following illustration shows the different buttons on the remote control. You can use it as a reference while following the instructions for performing tasks.

01. Press the **Group** button to select all lighting groups to turn on, turn off, dim, or brighten.
02. Press a **Group Number** button to select that lighting group to turn on, turn off, dim, or brighten. Also use these buttons to program the lights in the corresponding group. An indicator light above each number indicates the group number currently being used.
03. Press the **On/Off** button to turn on or off the lights in the selected lighting group(s). Lights turn on to the previous dimming level.
04. Press and hold the **Dimmer** to dim or brighten the lights in the selected lighting group(s). Lights get dimmer the further you press to the left and get brighter the further you press to the right.
05. The primary status indicator lights or flashes during different activities with the remote control.
06. The battery compartment on the back holds 2 AA batteries.
07. Press the **Program** button (inside battery compartment) to initiate programming of lighting groups and other remote control programming functions.



INDICATORS

The remote control has four group number indicator lights and one primary status indicator light that display the following patterns to show you the remote control's status during different processes:

PROCESS	INDICATOR AND DESCRIPTION
Initial Remote Control Setup	Primary indicator flashes steadily: During the process of installing batteries for the first time, the remote control is determining the best signal for your lighting system.
Adding Light Bulbs to Network	<p>Group number indicator flashes steadily: The corresponding lighting group is the active group for the new light bulbs to join.</p> <p>Primary indicator flashes rapidly: The remote control has found a new light bulb within range. After the light bulb is successfully added to the network, the indicator stops flashing.</p> <p>Primary indicator turns on solid: The light bulb has been successfully added to the network.</p>
Removing Light Bulbs from Network	Group number indicator and primary indicator flash slowly for 30 seconds: One or more light bulbs have been removed.
Working with One Lighting Group	<p>Group number indicator turns on, primary indicator remains off: The corresponding lighting group has been selected, and its last state was off.</p> <p>Group number indicator and primary indicator turn on: The corresponding lighting group has been selected, and its last state was something other than off (for example, lighting group was on or was dimmed to a certain level).</p>
Working with All Lighting Groups	<p>All group number indicators turn on, and primary indicator remains off: All lighting groups have been selected, and their last state was off.</p> <p>All group number indicators and primary indicator turn on: All lighting groups have been selected, and their last state was something other than off (for example, lighting groups were on or were dimmed to a certain level).</p>
Cloning the Remote Control	<p>Primary indicator flashes steadily: The remote control is in cloning mode.</p> <p>Primary indicator flashes rapidly: The remote controls are transferring data between each other.</p> <p>Primary indicator turns on solid: Both remote controls have finished the cloning process successfully.</p> <p>Group number indicators flash steadily for 2 seconds: The cloning process timed out or failed.</p>

installation

Installation of your lighting kit includes installing the light bulbs into light fixtures and preparing the remote control.

INSTALLATION STEPS

Before installing the light bulbs, determine the appropriate locations in your home for installing them. *The Lighting Kit Overview* chapter provides information on planning your lighting network. When you are ready to install the light bulbs, perform the following steps:

01. Turn power **OFF** to the light fixtures where you will be installing the network light bulbs.
02. Remove any existing light bulbs from the light fixtures.
03. Install each network light bulb into the light fixtures as you would any standard light bulb.
04. Turn power on to the light fixtures. The light bulbs turn on to full brightness. If a light fixture has a dimmer control (not recommended), set the dimmer level to full brightness.
05. Remove the battery compartment cover from the back of the remote control, and insert two AA alkaline batteries (included). The first time you insert batteries, the primary indicator light flashes while the remote control determines the best signal for your lighting system. When this process is complete, the indicator light will remain on for approximately five seconds. When the indicator light turns off, your remote control is ready.

06. Leave the light fixture switches **ON** so that power is available when using your remote control to turn the light bulbs on and off.

Once these steps are complete, you can use the remote control as discussed in the *Remote Control Operation* chapter to operate your lighting network.

Installation Tips

Review The Safety Information. Be sure to review the information contained in the *Safety Information* chapter for important safety information you should follow.

Keep radio signals clear. The hardware in your lighting kit has antennas built-in for radio communication. Just as you might experience reception problems on your mobile phone inside a building, the hardware in your lighting kit can have trouble communicating if their radio signals are blocked by obstacles such as large metal panels or walls containing wire mesh. When using the remote in your home, imagine invisible lines connecting between your remote and the nearest bulb, and between bulbs and other bulbs. Try to keep these lines clear from obstruction as much as possible.

remote control operation

You can perform several tasks with the remote control, including:

- Turning lights on and off
- Brightening and dimming lights
- Changing the lighting group to which a light bulb is assigned
- Cloning the remote control to a new one
- Replacing batteries
- Resetting the remote control to factory default settings

Note: Some tasks require pressing the **Program** button, which is located inside the battery compartment on the back of the remote control. Be sure to press this button only as directed in the instructions. Pressing it an additional time during remote control programming mode immediately cancels the current operation.

Turning Lights on and Off

To turn lights on and off, you must turn on and off an entire lighting group:

01. Press the **Group Number** button for the lighting group you want to turn on or off. If you want to turn on or off ALL lighting groups, press the **1 - 4** button.
02. Press the **On/Off** button. If the lights were previously off, they will turn on. If the lights were previously on, they will turn off.

Note: The previously selected group (or all groups, if selected) remains the active group on the remote control. To take action on that same group again, you do not have to press the group button again.

Brightening and Dimming Lights

You can brighten and dim your lights even if though they are not connected to a fixture with a dimmer switch. To set the brightness level of lights, you must set the level for an entire lighting group:

01. Press the **Group Number** button for the lighting group you want to dim or brighten. If you want to dim or brighten ALL lighting groups, press the **1-4** button.
02. To dim the lights in the selected group(s), press and hold the left side of the dimmer button. Release the button when the lights reach the level you want. Lights will dim more the further to the left you press.
03. To brighten the lights in the selected group(s), press and hold the right side of the dimmer button. Release the button when the lights reach the level you want. Lights will brighten more the further to the right you press. They automatically stop when they reach full brightness.

The lights in the group will remember the latest brightness level when you turn them on and off.

Note: The previously selected group (or all groups, if selected) remains the active group on the remote control. To take action on that same group again, you do not have to press the group button again.

Changing a Light Bulb's Lighting Group

To change a light bulb's lighting group, you must first remove the bulb from the network using the removal procedure in the *Light Bulb Tasks* chapter. After the light bulb is removed, you can use the procedure in that same chapter for adding the light bulb to the network and assign it to the new lighting group.

Cloning a Remote Control

If you have an additional remote control, you can program it to be identical to your original remote control. This is useful if you think you may need to replace your original remote control or if you simply want to have a backup. When you clone an additional remote control, it will work the same way as your original remote control.

Before you get started, make sure you have your original remote control in addition to your new one. Both remote controls must be in range of each other. Remove the battery covers from both remote controls so you have access to the **Program** buttons. To clone the new remote control:

01. On the **ORIGINAL** remote control:
 - a. Press and hold the **Program** button.
 - b. While pressing the **Program** button, press the **On/Off** button **three** times.
 - c. Release the **Program** button. The primary indicator indicator starts flashing steadily.
02. On the **NEW** remote control:
 - a. Press and hold the **Program** button.
 - b. While pressing the **Program** button, press the **1-4** button **three** times.
 - c. Release the **PROGRAM** button. The primary LED indicator starts flashing rapidly.

Once the data transfer process begins between the remote controls, the primary LED indicator on the **original** remote control starts flashing rapidly.

03. When the new remote control has finished obtaining the network information, the primary LED indicators on both remote controls light solid for five seconds and then turn off.
04. You can now use the new remote control the same as you do your original. All of the lighting groups and settings are the same.

If the remote controls' group number indicator lights flash steadily for two seconds, the cloning process timed out or failed and you must start over.

Replacing Batteries

Your remote control uses two AA 1.5V alkaline batteries (included). To replace the batteries, remove the battery cover from the back of the remote control and remove the old batteries. Insert the new batteries as indicated in the battery compartment.

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

Resetting the Remote Control

You can reset the remote control back to the original default settings from the factory. This may be useful if you want to put a cloned remote control back to its standalone settings. Typically, though, factory reset is not a common procedure and you should be certain you want to do so since you will lose any network settings you previously programmed onto the remote control. If you have light bulbs programmed on the remote control then it is better to remove them from the network first since you will lose control of any light bulbs configured to work with the remote control. Refer to the Light Bulb Tasks chapter for instructions on removing a light bulb from the network.

If you are sure you want to reset the remote control, use the following steps:

01. Remove the battery cover from the back of the remote.
02. Remove the batteries from the remote control.
03. Press and hold the **Program** button.
04. While still pressing the **Program** button, reinsert the batteries into the remote control.
05. Release the **Program** button.

The remote control is returned to its default factory settings. To use it again, you must follow the original installation instructions. After the factory reset, you must reset all light bulbs in the network based on your group plan by following the procedure in the *Light Bulb Tasks* chapter to remove light bulbs from the network, followed by the procedure to add a new light bulb to the network.

light bulb tasks

There are additional network tasks that you may find you must perform with your light bulbs, including:

- Adding light bulbs to your network
- Removing light bulbs from the network

Adding Light Bulbs to the Network

When you add a light bulb to the network, you also assign it to a lighting group. To add light bulbs to the network:

01. Make sure your remote control is in range of the light bulb you are adding. Remove the battery cover from the back of the remote control so that you have access to the **Program** button.
02. Make sure power to the fixture where you are installing the light bulb is turned **OFF**.
03. Remove any existing light bulb from the light fixture.
04. Install the network light bulb into the light fixture as you would any standard light bulb. If the light fixture has a dimmer control (not recommended), set the dimmer level to full brightness.
05. Turn power to the light fixture on. The light bulb begins to brighten and dim while searching for the remote control's network.

Note: If for any reason the light bulb does not brighten and dim (if it remains full bright), then turn power to the light fixture off and on four times consecutively to reset the light bulb. During this process, only leave the power off or on for less than two seconds. The light bulb should then start to brighten and dim.

06. On the remote control, press and hold the desired lighting group button for three seconds. When the light bulb is found and is being configured by the remote control, the remote control's primary indicator light flashes rapidly. When the light bulb has been successfully added to the network, it will turn on at full brightness and the remote control's primary indicator will turn on solid. The group number

indicator light on the remote control will continue to flash for up to five minutes to give you time to install any additional light bulbs to that lighting group.

07. To add more light bulbs, repeat these steps. Remember, if the group number indicator light on the remote control is still flashing from step 6, then it will automatically find the new light bulb without you pressing any buttons, and it will add the bulb to the same lighting group. However, if the indicator light has stopped flashing, then you must repeat step 6. Repeat this for each additional light bulb you are adding.
08. When you are finished adding all new light bulbs, you can return the remote control back to normal operation by pressing the **Program** button. Otherwise the remote control will automatically return to normal operation in five minutes. Both the primary indicator light and the group number indicator light turn off when the remote control returns to normal operation.
09. Leave the light fixture switches **ON** so that power is available when using your remote control to turn the light bulbs on and off.

Removing Light Bulbs from the Network

When you remove a light bulb from the network, you remove all of its network settings. If you are removing light bulbs assigned to different lighting groups, you must work with one lighting group at a time. However, if you are removing light bulbs from **ALL** lighting groups, you can remove them all at the same time. To remove light bulbs from the network:

01. Make sure your remote control is in range of the light bulb you are removing. Remove the battery cover from the back of the remote control so that you have access to the **Program** button.
02. Make sure power to the fixtures containing the light bulbs you want to remove is turned **ON**. If there are other light bulbs on the network that are assigned to the same lighting group, but you do **NOT** want to remove those light bulbs from the network, then turn power to those light fixtures **OFF** (you can turn them back on after you have finished removing light bulbs). If you do not turn the other light bulbs off, then they will also be removed from the network since the action applies to the entire lighting group. If you accidentally remove a light bulb from the network, you can simply add it back again using the procedure in this chapter for adding light bulbs to the network.
03. On the remote control:
 - a. Press and hold the **Program** button.
 - b. While pressing the **Program** button, press and release the **ON/OFF** button (keep the **Program** button pressed).
 - c. While still pressing the **Program** button, press and release the **Group Number** button for the lighting group assigned to the light bulbs you want to remove; or, if you are removing light bulbs from **ALL** lighting groups, press and release the **1-4** button (keep the **Program** button pressed, regardless of the group button you press).
 - d. While still pressing the **Program** button, press and release the **ON/OFF** button again.
 - e. Release the **Program** button. The group number indicator

light (or all group number indicator lights if removing all groups) and the primary indicator light flash slowly for 30 seconds while the light bulbs are removed.

When the light bulbs have been removed from the network, they will brighten and dim.

04. Repeat these steps to remove light bulbs from another lighting group.

Removing a Light Bulb Without the Remote Control

If your remote control is not available you can remove a light bulb from the network by turning power to the light fixture off and on four times consecutively to reset the light bulb. During this process, only leave the power off or on for less than two seconds. When the light bulb has been removed from the network, it will brighten and dim.



optional lighting gateway

This user guide explains how to use lighting kits that do **not** have a Lighting Gateway. A Lighting Gateway is an optional device, similar to your home network router, that extends the range, features, and functionality of your lighting network. You can upgrade your network to operate with a Lighting Gateway to gain the following benefits:

- You can use a Smartphone application or your Web browser to perform many tasks with your lighting network and bulbs.
- Create schedules and timers to automatically turn on and off or dim lights.
- Customize your network light bulbs to fit your daily routines.

troubleshooting

If you are having problems with your lighting system, refer to the following sections for possible troubleshooting solutions.

Light Bulb Not Responding During Installation

When you add a new light bulb to the network (or if you add a previously existing light bulb that you removed from the network), the light bulb should brighten and dim during the installation process to indicate that it is searching for a network. If for any reason the light bulb does not brighten and dim (if it remains full bright), then turn power to the light fixture off and on four times consecutively to reset the light bulb. The light bulb should then start to brighten and dim once it is reset, which is usually within 10 seconds after the fourth off/on cycle.

Light Bulb Accidentally Removed from Network

It is possible for a network light bulb to be accidentally removed from the network. For example, if someone turns power off and on four times consecutively to the light fixture, the attached light bulb will reset and remove itself from the network. If this happens, follow the procedure in the *Light Bulb Tasks* chapter to add a new light bulb to the network.

Resetting Your Light Bulbs

If you are unable to fix issues that arise with your lighting system, you can reset your light bulbs as a last resort. To do so, follow the procedure in the *Light Bulb Tasks* chapter to remove light bulbs from the network, followed by the procedure to add a new light bulb to the network.

Problems with Remote Control

Depending on the problem you are having with the remote control, there are several possible solutions:

- **Replace batteries.** If the remote control is not functioning and the indicator lights do not light when you press the buttons, then the batteries may need replacement. Refer to the *Remote Control Operation* chapter for instructions on inserting new batteries into the remote control.
- **Turn power to light fixture on.** If you manually turn the power switch off for a light fixture, then power will not be available to the light bulb when you use the remote control

to turn the light on and off. Be sure the appropriate light fixtures are left in the on position. If necessary, refer to the section on power failure in the *Lighting Kit Overview* chapter.

- **Place remote control at an adequate distance from light bulb.** Not only must you ensure the remote control is within range of the nearest network light bulb, you must also ensure it is not too close. Operating the remote control too close to a network light bulb could interfere with the remote control's signal. You should hold the remote control at least 1 foot (.3 meters) away from any of your network light bulbs.
- **Reset the remote control.** If the remote control is not functioning correctly but the batteries are new, then you may have to reset the remote control to its default factory settings. The factory reset process is as discussed in the *Remote Control Operation* chapter.
- **Replace a lost or broken remote control.** If you have an additional remote control that was previously programmed to be identical to the your original remote control (cloning your original remote control, as discussed in the *Remote Control Operation* chapter), then you can use that clone the same way as your original without losing any of your network or light settings. However, if you do not have an additional identical remote control, then there is no way to retrieve your settings from the lost or broken remote control. The only option in this case is to reset your entire lighting system, as discussed earlier in this chapter.

safety information

Batteries

Use only AA 1.5V alkaline batteries.

WARNING: Batteries can explode, or leak, and can cause injury or fire. To reduce this risk:

- Carefully follow all instructions and warnings on the battery label and package.
- Always insert batteries correctly with regard to polarity (+ and -) marked on the battery and the equipment.
- Do not short battery terminals.
- Do not mix old and new batteries. Replace all of them at the same time with new batteries of the same brand and type.
- Remove dead batteries immediately and follow local regulations for safe disposal.
- Do not dispose of batteries in fire.
- Keep batteries out of reach of children.
- Transporting batteries can possibly cause fires if the battery terminals inadvertently come in contact with conductive materials such as keys, coins, hand tools, etc. The US Department of Transportation Hazardous Material Regulations (HMR) actually prohibits transporting batteries in commerce or on airplanes (i.e. packed in suitcases and carryon luggage) UNLESS they are properly protected from short circuits. So when transporting individual batteries, make sure that the battery terminals are protected and well insulated from materials that could contact them and cause a short circuit.

Indoor Use Only

The hardware in your lighting kit should be used only in dry, indoor locations. Do not use the hardware in high-humidity locations such as greenhouses, saunas, washrooms, or patios. Do not use the hardware in locations where it can get wet such as near aquariums or running water.

Do Not Disassemble

The hardware in your lighting kit has no user-serviceable parts inside. In case of persisting malfunction, please contact Customer Service to arrange for repair at a certified service location. Do not attempt to disassemble the hardware for any reason.

FCC

Federal Communication Commission Interference Statement

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 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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

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.

IMPORTANT NOTE:

Radiation Exposure Statement:

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

IC

Industry Canada Statements

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

CE

Declaration(s) of Conformity

These CE Marked GreenWave Reality products incorporating Radio and Telecoms Terminal Equipment functionality are in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

A copy of the original CE Declaration of Conformity is on file and available upon request for all CE Marked GreenWave Reality products. Please visit www.greenwavereality.com to obtain a copy of the Declaration.

The use of such device might not be harmonized throughout EU and EFTA Member States. The Final Integrator of the product shall check that the use of such devices for power node are allowed for placing on the market in any particular Member State.



Disposing of Your Used Product

This product complies with the WEEE Directive (2002/96/EC) marking requirements. The affixed label indicates that you must not discard this electrical / electronic product in domestic household waste.

WEEE Product Category. With reference to the equipment types in the WEEE Directive Annex 1, this product is classed as category 3 “IT and Telecommunications Equipment.”

DO NOT DISPOSE IN DOMESTIC HOUSEHOLD WASTE. To return unwanted products, contact your local GreenWave Reality office for more information.

Product Specifications

Light Bulbs

	CFL
Radio Frequency	2.405 – 2.48GHz
Features	On, Off, Dim
Light Intensity	1500lm
Color Temperature	Warm White (2700K)
Color Range Index	82
Wattage	23W
Equivalent Wattage (Incandescent Replacement)	100W
Voltage	120V/60Hz

Remote Control

Radio Frequency	2.405 – 2.48GHz
Operating Temperature	0°C ~ +40°C
Storage Temperature	-20°C ~ +60°C
Operating Humidity	20% ~ 85% RH
Storage Humidity	5% ~ 95%
Battery	2 x AA
Battery Lifetime (For Included Batteries)	Estimated 12 Months

quick reference notes

Task	Steps
Add Light Bulb	Press and hold Group Number till light indicator begins to flash. Main light indicator will begin to flash when the Remote and Light Bulb are communicating, once the light indicator turns off the process is complete.
Remove Light Bulb	Press and hold Program button, press the On button, press the Group Number , press the On button, release Program button. Main Indicator Light will flash till the process is complete.
Clone Remote Control	Original Remote: Press and hold the Program button, press the On/Off button three times, release Program button. New Remote: Press and hold the Program button, press the Group All button three times, release Program button.
Reset Remote Control	Remove one battery, press and hold Program button, insert battery into Remote, count to three seconds, release Program button.
Dim Light Bulb	Press a Group to dim, press a spot on the slide dimmer for desired light level, release when Bulb has reach desired brightness.
Turn Bulb On/Off	Press a Group to turn On/Off, press the On/Off button to turn on/off.

