Product Introduction

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:

1. Turn power **OFF** to the light fixtures where you will be installing the network light bulbs.
2. Remove any existing light bulbs from the light fixtures.
3. Install each network light bulb into the light fixtures as you would any standard light bulb. When removing each light bulb from the package, note the pre-assigned lighting group number on the package and install the bulbs in the light fixtures based on your lighting group plan.
4. Turn power on to the light fixtures. The light bulbs turn on to full brightness. If a light fixture has a
5. 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 LED light flashes while the remote control determines the best signal for your lighting system. When this process is complete, the LED light will remain on for approximately five seconds. When the LED light turns off, your remote control is ready. Note that this process occurs only during initial battery installation and does not occur when you replace batteries in the future unless a factory reset is performed.
6. 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 placing these devices in your home, imagine invisible lines connecting between them. Try to keep these lines clear from obstruction as much as possible.

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.

1. Press the **All Groups** button to select all lighting groups to turn on, turn off, dim, or brighten.
2. 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 LED light above each number indicates the group number currently being used.
3. 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.
4. 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.
5. The primary LED status indicator lights or flashes during different activities with the remote control.
6. The battery compartment on the back holds 2 AA batteries.
7. 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 LED indicators and one primary LED status indicator that display the following patterns to show you the remote control's status during different processes:

Process	LED Indication 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	**Group number indicator flashes steadily:** The corresponding lighting group is the active group for the new light bulbs to join. **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. **Primary indicator turns on solid:** The light bulb has been successfully added to the network.
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	**Group number indicator turns on, and primary indicator remains off:** The corresponding lighting group has been selected, and its last state was off. **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).
Working with All Lighting Groups	**All group number indicators turn on, and primary indicator remains off:** All lighting groups have been selected, and their last state was off. **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).
Cloning the Remote Control	**Primary indicator flashes steadily:** The remote control is in cloning mode. **Primary indicator flashes rapidly:** The remote controls are transferring data between each other. **Primary indicator turns on solid:** Both remote controls have finished the cloning process successfully. **Group number indicators flash steadily for 2 seconds:** The cloning process timed out or failed.

Remote Control Operation

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

- Turning on and off lights
- Dimming and brightening 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

Turning Lights on and Off

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

1. 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 **All Groups** button.
2. 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.

Turning Lights on and off Without the Remote Control

If you need to turn on or off a light when the remote control is not available, you can do so by turning on or off the power directly to the light fixture as you do with standard light bulbs. If the light switch is already turned on (to support operation with the remote control), you must turn the switch off and then back on to turn the light bulb on. When you turn power on this way, the network light bulb in the light fixture automatically turns on at full brightness (regardless of whether the light bulb was previously on or off). The affected light bulb maintains its previous network and lighting group settings when you return to using the remote control.

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. CFL light bulbs, which typically do not brighten or dim, can also brighten and dim on your network. To set the brightness level of lights, you must set the level for an entire lighting group:

1. 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 **All Groups** button.
2. 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.
3. To brighten the lights in the selected group(s), press and hold the right side of the dimmer. 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 off and on.

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 to Factory Default Settings

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

1. Remove the battery cover from the back of the remote control.
2. Remove the batteries from the remote control.
3. Press and hold the **Program** button.
4. While still pressing the **Program** button, reinsert the batteries into the remote control.
5. 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.

Safety Information

Batteries

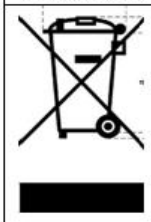
Use only AA 1.5V alkaline batteries.

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.

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.

Correct Disposal of this product	
	This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

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.

For Remote Control

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.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

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

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.
Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.
Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

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