

PRODUCT MANUAL

Gecko Wireless 2 Zone LED Dimmer and Receiver



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Gecko 2 Zone LED Dimmer

Product Description

The Gecko Wireless 2 Zone Wall LED Dimmer has been designed to bring light control easily. No wires or switch box locations are needed, just stick or mount the Gecko to any flat location such as walls or cabinets. The simple modern design and elegant Ivory White surface compliments a variety of LED projects.

The Gecko Dimmer runs on a single internal 3V battery (included) and can be paired wirelessly with up to two LED zones. The wireless design saves time and energy by requiring no cabling or installation to pair the Gecko Dimmer with the LED zones.

The Gecko Dimmer is easy to install and operate, and will provide many years of easy operation.

Main Functions:

- No Wires, Stick or Mount to Any Flat Surface
- Control up to 2 Zones Independently
- Full Dimming Control
- 50 Foot Wireless Range
- Soft Touch On/Off
- Memory Function - Remembers Last Setting Even If Power Goes Off

This manual reviews:

- Entire installation process
- Product features and primary uses
- Detailed functionality
- Troubleshooting options
- Technical Parameters



Dimmer



Receiver

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Installation

The Gecko Dimmer and Receiver can control up to two single color LED zones independently, for zones running from 12V to 24V DC. After the installation is complete, you can change the brightness on each LED zone independently from 0% to 100% brightness.

Tools Required:

- Philips Screwdriver
- Flat Head Screwdriver
- Wire Stripper

Setting up the dimming system:

This section will show you how to complete the wiring for one zone with a single receiver, which will connect the power supply for up to four LED fixtures. Only one LED fixture is required per receiver. To wire another zone, repeat the following steps with another receiver.



- 1 Remove the white plastic end caps on both ends of the receiver using the Philips screwdriver. This will expose the green wiring slot blocks.



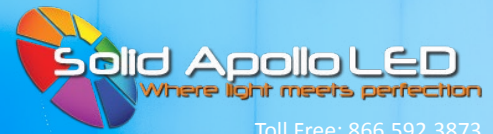
- 2 To add power to the receiver, first make sure the power supply uses the correct voltage (12-24V DC). Then make sure the power supply is not plugged in. Take the negative wire coming from the power supply, and using the Wire Stripper, strip off approximately 1/4" of cover from the end of the wire. Twist the exposed metal wire to help make a secure connection.



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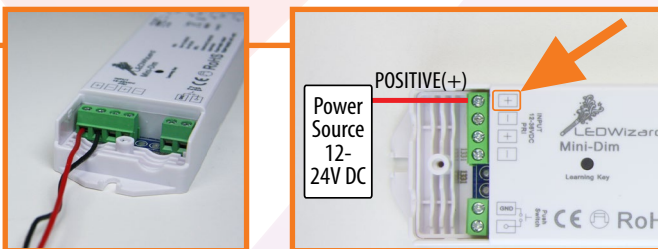
- 3 On the left green wiring slot block for the power supply, use the Philips Screwdriver to rotate the negative wiring screw counter clockwise to open the wiring slot located below the screw. The screw will not come out.



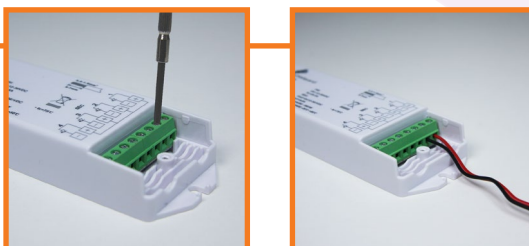
- 4 Take the negative wire and insert the exposed metal end into the negative wiring slot located below the screw. Place the wire inside until the wire stops against the wall inside the negative wiring slot. Take the Philips Screwdriver and turn the negative wiring screw clockwise until the screw is snug. The negative wire has now been secured to the receiver and should not come out. If it does come out, repeat from step two, and place the exposed metal wire further into the negative wiring slot.



- 5 Repeat steps two through four for the positive wire from the power supply. The positive wire will go into the positive wiring slot.



- 6 On the right side of the receiver, connect the first LED fixture. First, take the negative wire, and repeat steps two through four above, but connect the wiring in the right side green wiring block using the negative wiring slot. Repeat again for the positive wire but using the positive wiring slot.



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7 At this time, you can attach another LED fixture by repeating step six using the right side green wiring blocks. Only one LED fixture is required to run the lights.

8 The wiring for the receiver is now complete. Place the white receiver end caps back on the receiver and screw them down securely using the Philips Screwdriver.



9 Plug in the power supply to the wall outlet. The LED fixture will turn on automatically. The unit is now ready to pair with the Gecko Dimmer.

Receiver Wiring Diagram:



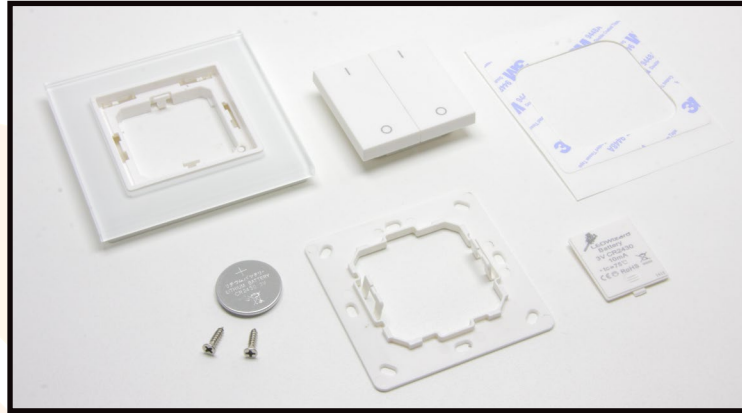
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Gecko Components

The Gecko Dimmer consists of the following components:

- Main Case
- Center Button and Battery Holder
- Double Sided Tape
- Battery Door
- Rear Mounting Plate
- Battery
- Two Mounting Screws



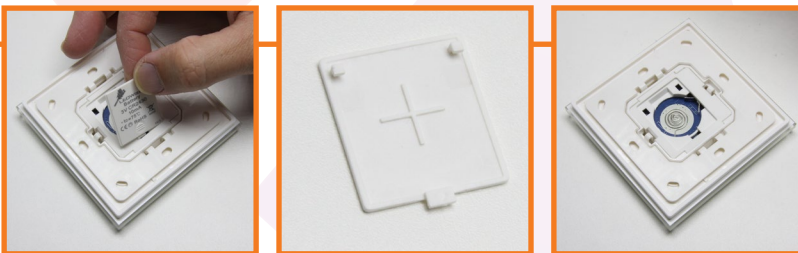
Installing the Battery

This section will show you how to install the provided battery into the Gecko Dimmer.

- 1 Flip the Gecko Dimmer over to show the battery door on the back. At the base of the door push upwards as indicated on the door.



- 2 Then at the top of door, carefully insert your nail to lift the door from the top. The door will lift off from the dimmer. Please note on the backside of the door, the "positive" symbol is shown - this indicates that the positive side of the battery needs to face upwards.



- 3 Take the provided battery and place it into the dimmer with the writing on the battery facing upwards. Slide the battery in with the right side first so it connects with the terminals. Otherwise the battery will not seat properly.



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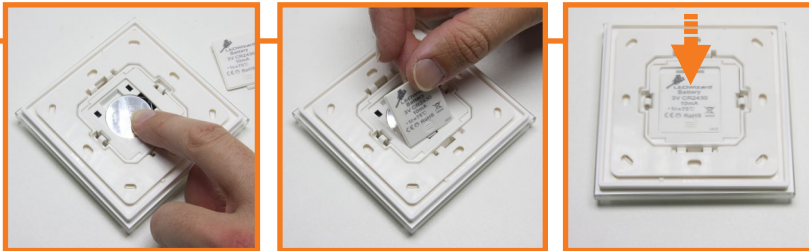
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- 4 Hold down the battery with one finger as it will not stay put. Using your other hand, take the battery door and reinstall by placing it on the battery, then sliding the door backwards to lock the battery and door into place. The Gecko Dimmer is now ready to mount.



Mounting the Gecko Dimmer

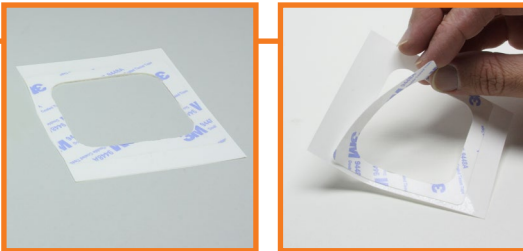
This section will show you how to mount the Gecko Dimmer. There are two options:

- 1) use the provided double sided tape
- 2) use the provided screws

Mounting Option 1: Double Sided Tape

- 1 To mount the Gecko Dimmer using the double sided tape, first make sure the mounting surface is clean and dry. Also check that the surface is not loose or peeling.

- 2 Begin by taking the provided double sided tape, and peel off the white backing paper to expose one of the sticky sides.



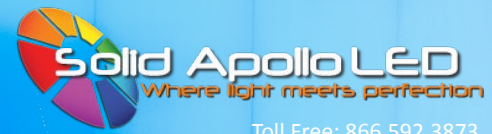
- 3 Take the tape and carefully attach the sticky side to the back of the Gecko Dimmer on the rear mounting plate. After the tape is attached to the Dimmer, push down on the tape with your fingers to make sure the tape is tightly secure to the rear mounting plate. Then carefully peel the last backing paper piece off the double sided tape from the back of the Gecko Dimmer.



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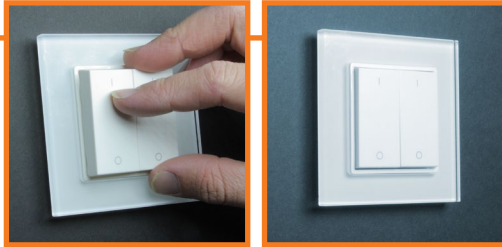
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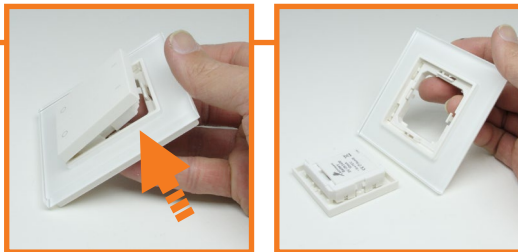
- 4 Last, hold the dimmer up to the mounting location and make sure the buttons match the correct orientation ("on" buttons at the top, and "off" buttons on the bottom). Optionally, you can take a level and square it to the wall as you mount the Gecko dimmer. Now push the dimmer firmly into place. Carefully let go while checking that the Gecko is staying in place.



Mounting Option 2: Hard Mount with Screws

Please note the provided self-taping screws are good for mounting to drywall or wood surfaces. For hard mounting with screws in more dense materials, such as concrete, other types of screws or initial drilling could be necessary.

- 1 To mount the Gecko Dimmer using the provided screws, begin by placing the Gecko Dimmer face up in your hand. Push on the battery door in the center of the dimmer and the center button and battery holder assembly will release. Place the center assembly to the side.



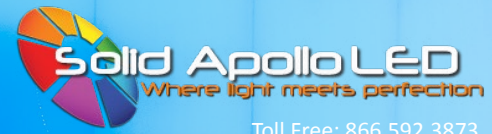
- 2 The clips for the rear mounting plate need to be released. The clips for the rear mounting plate are held in the top center and bottom center of the main unit. Begin by releasing the top clip by pushing up and then back. Then on the bottom clip, push down and back. The rear mounting plate should release from the main unit.



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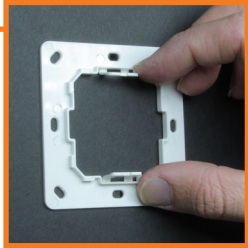
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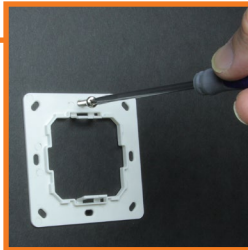


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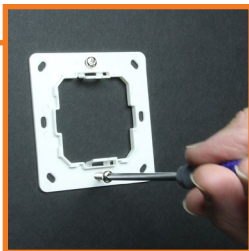
- 3 Take the rear mounting plate and hold it up to the desired mounting location. Make sure the clips are on the top and bottom (not side to side) so the Gecko Dimmer stays oriented correctly on the wall. The screws also go in the top center and bottom center holes.



- 4 At this time, you can set rear mounting plate "square" to the wall using a level, and a pencil to mark the top center and bottom center holes. After the exact location is chosen, take one screw and place it in one of the holes in the rear mounting plate. Using a Philips screwdriver, tighten this screw down several turns.



- 5 Take the second screw and place it in another hole across from the first screw. Take the Philips screwdriver and tighten the screw down several times. Then tighten the first screw down until it is snug. Then tighten the second screw down until it is snug. The rear mounting plate should now be snug against the mounted surface. Check that it is not loose.



- 6 Next, take the main unit and place it back on the rear mounting plate, carefully push it on so the clips engage on the top and bottom. The clips will click once in place.



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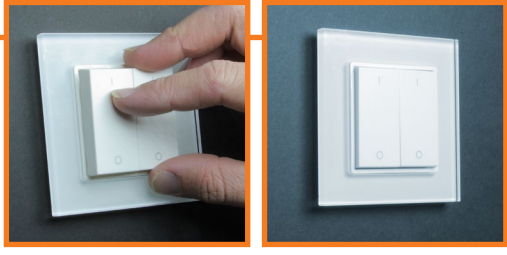
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7 The center assembly is now ready to go back into the main unit. Place the center assembly into the main unit (buttons facing out) being careful to align the clips and the slots on the center assembly. Once in, the center assembly will gently click into place in the top and bottom. The Gecko Dimmer is now ready to pair with the receiver.



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Pairing the Gecko Wire-Free 2 Zone Dimmer and Receiver

This section will show you how to pair your new Gecko Wire-Free 2 Zone Dimmer with the receiver for one zone.



Learning Key Button Location



- Dimmer Off (Touch Once)
- Decrease Brightness (Hold Down Button)



- Dimmer On (Touch Once)
- Increase Brightness (Hold Down Button)

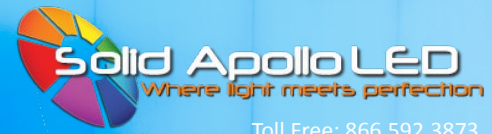
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Make sure the LED zone(s) and power supply are turned on and correctly connected. On the receiver, push the Learning Key button once. On the Gecko Dimmer, push the on and off button repeatedly until the lights on the LED fixture(s) flash. The flash indicates the receiver and the dimmer are paired. This should happen within the first five seconds. The Gecko Dimmer is now ready to work.



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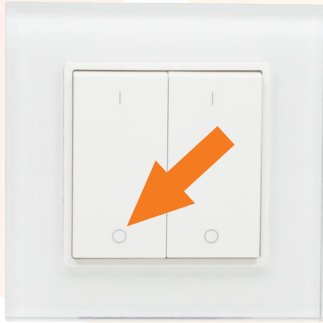
Gecko Wireless 2 Zone LED Dimmer and Receiver



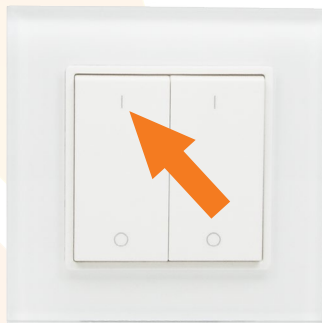
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Operating the Onyx 2 Zone

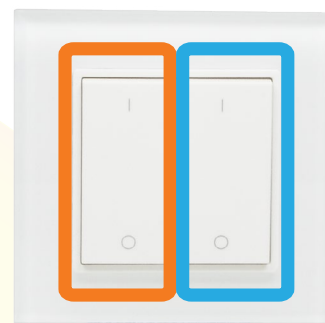
This section will show you how to use your new Onyx 2 Zone.



- Dimmer Off (Touch Once)
- Decrease Brightness (Hold Down Button)



- Dimmer On (Touch Once)
- Increase Brightness (Hold Down Button)

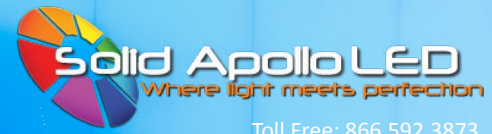


- Zone 1 Control**
- Zone 2 Control**

- 1 To turn the lights on in zone 1, push the top left "on" button once. To turn the lights off in zone 1, push the bottom left "off" button once.
- 2 To decrease the brightness on zone 1, push and hold the bottom left "off" button and watch the lights in zone 1. When the lights dim to the selected level, let go of the button. To increase the brightness on zone 1, push and hold the top left "on" button and watch the lights in zone 1. When the lights brighten to the selected level, let go of the button.
- 3 To turn the lights on in zone 2, push the top right "on" button once. To turn the lights off in zone 2, push the bottom right "off" button once.
- 4 To change the brightness in zone 2, repeat step 2 but using the top right and bottom right buttons.

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Troubleshooting

This section will show you how to troubleshoot the Gecko Wire-Free 2 Zone Dimmer and Receiver.

- 1 If you are having problems with the lights responding to the Gecko Dimmer in either zone, first check that the dimmer is within range of the receiver (50 feet maximum).
- 2 Check that the lights in the zone are on, and the wiring to and from the receiver matches the diagram on page 4. Check that the wiring to the Gecko Dimmer matches the wiring diagram on page 5.
- 3 If there is power going to the receiver and the lights do not shine when turned off and on, the Gecko Dimmer could be dimming the lights in that zone. Press and hold the on button until the lights brighten, then let go of the button when the lights have reached the desired level of brightness.
- 4 You can re-pair the Gecko Dimmer and the receiver by following these steps:
 - A First, select the zone you want to re-pair. Each zone has to be re-paired separately.
 - B On the receiver, hold the Learning Key button down for 10 seconds. This will reset the system to its default setting.
 - C Push the Learning Key button once, then touch the on button then the off button quickly several times until the lights blink. The dimmer and receiver for the selected zone are now paired.

Technical Information

Controller

- Independent Control of 2 single color LED Zones
- Dimming from 0% to 100% brightness
- 12V to 24V DC Operation

Receiver

- Operating Voltage 12V DC to 36V DC
- 4 x 5A Output Channels
- Overheat Protection
- Short Circuit Protection
- PWM Dimming
- Control up to Four Single Color LED fixtures simultaneously
- 240W (at 12V DC)
- 480W (at 24V DC)