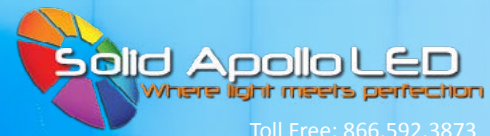


PRODUCT MANUAL

Onyx 2 Zone In-Wall Wireless LED Dimmer and Receiver



Toll Free: 866.592.3873
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www.SolidApollo.com

Product Description

The Onyx 2 Zone In-Wall Wireless LED Dimmer is an elegant wireless design with full wireless control for up to two LED zones. The dimmer is easy to install and fits in any standard US switch gang box. The wireless connection saves time and energy by requiring no cabling from the wall controller to the LED zones.

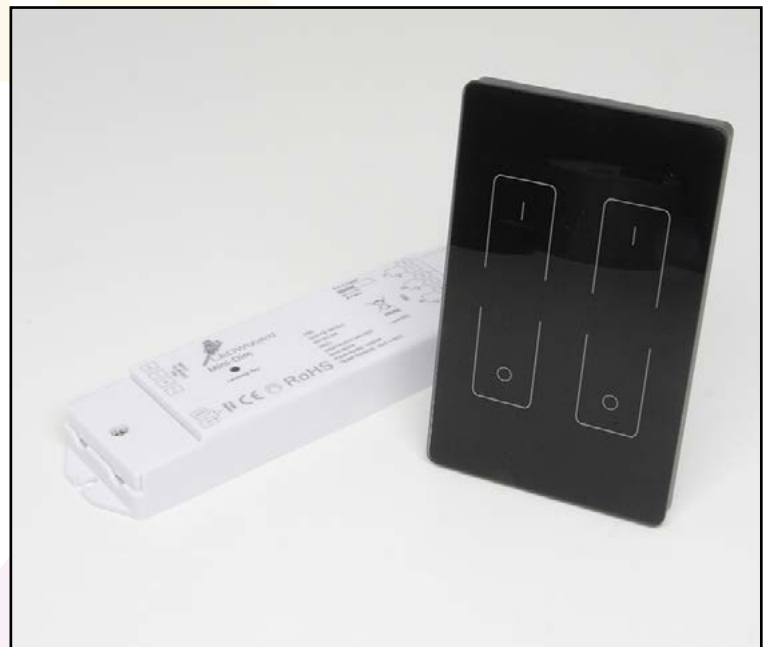
The Onyx 2 Zone includes a memory function, which remembers the last brightness setting even if the power goes out. The dimmer is the perfect controller for all single color LED projects and runs on low 12V to 24V power. The Onyx 2 Zone is easy to install and operate, and will provide many years of easy operation.

Main Functions:

- Control Up to 2 Zones Independently
- Wireless Control for Quick and Easy Installation
- Touch Sensitive Dark Glass Surface
- 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

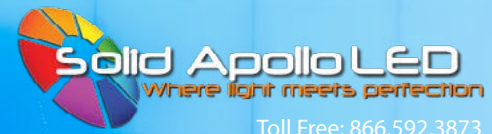


Receiver

Onyx 2 Zone In-Wall Wireless LED Dimmer

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Installation

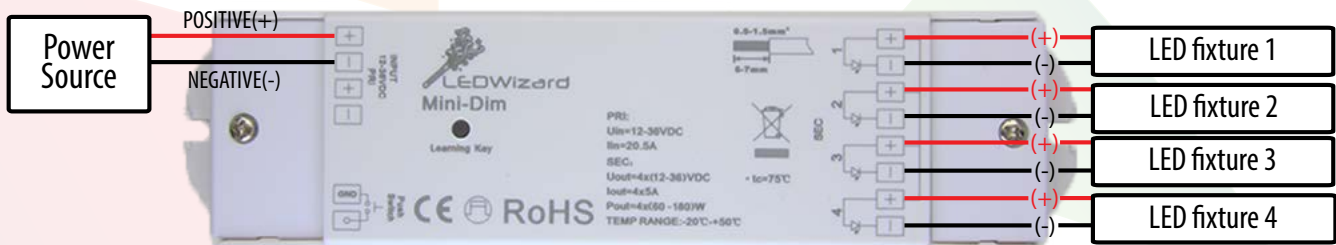
Solid Apollo's Onyx 2 Zone Dimmer and Receiver can control up to two single color LED zones independently, for zones running from 12V to 24V DC. After the installation is complete, you can change the brightness on each LED zone independently from 0% to 100% brightness.

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.



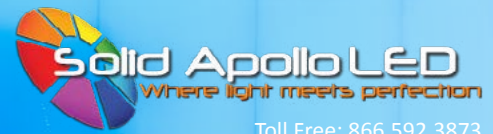
- 2 First, the power supply connects to the left side of the receiver (uses 12 - 24V DC). Make sure the power supply is not plugged in. Take the negative wire, and using the Wire Stripper, strip off approximately 1/4" of cover from the end of the wire. Twist the exposed metal wire to help make a secure connection.



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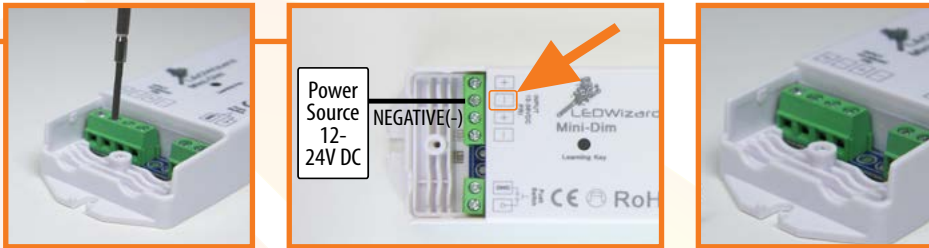
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Onyx 2 Zone In-Wall Wireless LED Dimmer

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 of 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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Onyx 2 Zone In-Wall Wireless LED Dimmer

7 At this time, you can attach up to three more LED fixtures 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.



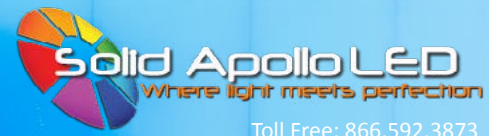
9 Plug in the power supply to the wall outlet. The LED fixture will turn on automatically. The unit is now ready to pair with the Onyx 2 Zone.

Receiver Wiring Diagram:



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Onyx 2 Zone In-Wall Wireless LED Dimmer

Wiring Power and Mounting the Onyx 2 Zone Dimmer

This section will show you how to connect the power source wiring and mounting the Onyx 2 Zone.

Wiring Diagram for Dimmer



- 1 On the back of the rear mounting base are the green wire mounting boxes. The power supply will be connected to the far left wire mounting blocks. Using a Philips Screwdriver, unscrew the far left wire mounting screw in a counterclockwise direction. This block is for the Negative (Ground) wire.



- 2 Take the negative wire, check the wire coating has been stripped from the wire (see page 2 step 2 if wire requires stripping), and insert the exposed end below the mounting block screw (labeled GRD). Take the Philips Screwdriver and re-tighten the screw clockwise until the screw is snug and the wire does not easily pull out.



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3 Repeat the last step, but instead using the positive wire and the second from the left wiring block (labeled Vin).



4 The rear mounting base is snapped onto the face of the Onyx 2 Zone. Using a flat head screwdriver, carefully insert the tip into the notch at the end of the Onyx 2 Zone. Slowly pull the handle of the screwdriver upwards and then downwards to help release the rear mounting base.



5 Take the wired rear mounting base and place it against the wall location with the switch gang box. Make sure to place the back of the base into the wall with the opening notch (from step four) facing down.

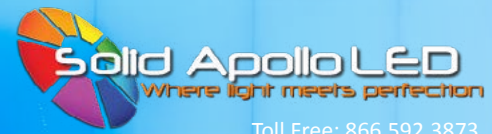


6 Take one of the provided screws and insert it into the top hole of the rear mounting base. Take the Philips screwdriver and begin tightening the screw in a clockwise direction. At this time, make sure any extra wiring is tucked carefully behind the rear mounting base. Take the second provided screw and insert it into the bottom hole of the rear mounting base. Take the Philips screwdriver and begin tightening this screw. Tighten down the top screw until it is snug and flush with the wall. Repeat this process with the lower screw.



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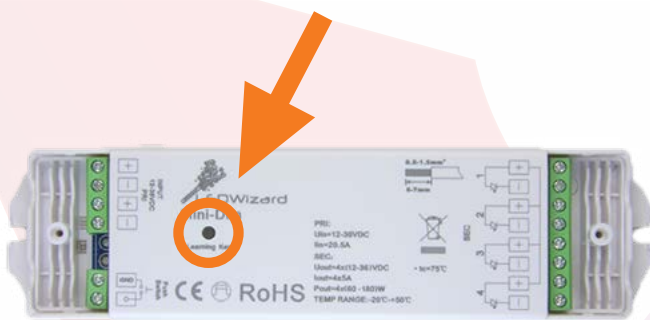
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- 7 Mount the face plate of the Onyx 2 Zone by first aligning the notch at the bottom so it lines up with the rear mounting plate. If they are not aligned the face plate will not snap into place. Place the face over the rear mounting base and carefully push on the top and bottom until the face snaps into place and is flush at the top and bottom of the wall. The Onyx 2 Zone is ready to pair with up to two LED zones.



Pairing the Onyx 2 Zone Dimmer and Receiver

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



Learning Key Button Location



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



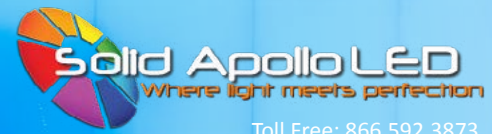
- Dimmer On (Touch Once)
- Increase Brightness (Hold Down Button)

- 1 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 Onyx 2 Zone, 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 Onyx 2 Zone is now ready to work.



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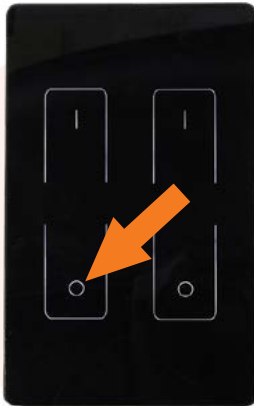


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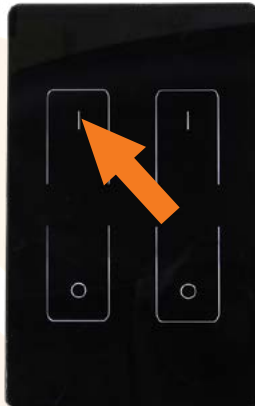
Onyx 2 Zone In-Wall Wireless LED Dimmer

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 in 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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Onyx 2 Zone In-Wall Wireless LED Dimmer and Receiver

Troubleshooting

This section will show you how to troubleshoot the Onyx 2 Zone Dimmer and Receiver.

- 1 If you are having problems with the lights responding to the Onyx 2 Zone 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 Onyx 2 Zone 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 Onyx 2 Zone 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 Onyx 2 Zone 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)