the radiant® collection

Wi-Fi Smart Tru-Universal Dimmer
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before you start

Review this guide in its entirety before beginning device installation. Consult an electrician with any questions or if you are unsure of your abilities.

⚠️ **Warning:** Incorrect installation could result in death, serious injury, and/or damage to your home or devices.

⚠️ **Caution:** To reduce the risk of injury and/or overheating and damage to other equipment:

- For dry, indoor use only.
- Use ONLY with dimmable lighting loads.
- Do not use to power medical equipment.
- Do not use with loads exceeding the device load rating (see page 22).
- Connect the smart dimmer to a 120 VAC, 60 Hz power source ONLY.
- Always use copper wire to install the smart dimmer and follow all applicable local and national electrical codes.
- Install in a non-metallic electrical box to protect wireless signal strength.

Visit the Legrand website at [www.legrand.us/radiant/smart-lighting/support](http://www.legrand.us/radiant/smart-lighting/support) for installation videos or to learn more about your smart device.
what you need

**REQUIRED:**

+ Phillips-head screwdriver

- Flat blade screwdriver

**YOU MAY ALSO NEED:**

Voltage tester, pliers, wire cutter, wire stripper, electrical tape, flashlight, wiring leads (included), and wire nuts (included)
installation & setup

step one | turn off the power for your device at the circuit breaker

Flip the existing light switch multiple times to confirm the power is off.

NOTES:
• If there are multiple devices next to your existing light switch, make sure power is off at the circuit breaker for all of those devices.
• For three-way installations, follow the instructions for the remote device.
installation & setup

step two | remove the existing device

Check for the following wires:

1. **HOT or LINE**: Receives power from the circuit box. Referred to as “hot” for the purposes of this guide. Do not touch or let “hot” wires contact other wires.

2. **LOAD**: Directs power to your light(s).

3. **NEUTRAL**: Creates a path to return current to the power source when the device is off. Required for your dimmer installation.

4. **GROUND**: Provides a safe path for electricity in the event of a short circuit.

5. **TRAVELER**: Connects power between three-way wiring devices. Not required for your dimmer installation.

**NOTE:** Refer to the “faqs” on page 23 if you are unsure of your wiring.
Load

Supply “Hot”
installation & setup

step three | wire the smart dimmer

Use the wire nuts provided to secure the wires together.

1. Connect the WHITE neutral wire on the dimmer to the neutral wires in the box, using the red wire nut.

2. Connect the LOAD wire on the dimmer to the load wire in the box.

3. Connect the HOT wire on the dimmer to the hot wire(s) in the box.

4. Connect the GREEN ground wire on the dimmer to the ground wire(s) in the box.

5. If the light is controlled with only one switch, use a wire nut to cap the YELLOW traveler wire on the device.

NOTE: These instructions are for installations where only one switch is replaced. If you have multiple dimming locations, use the radiant HMR multi-location dimming remotes. Use the yellow traveler wire for that application.
NOTE: For multi-gang installations, refer to “specifications” on page 22.
installation & setup

step four | secure the smart dimmer

1. Gently fold the wires into the electrical box. Be careful not to pinch a wire or loosen any wire nuts.

2. Use the device screws to secure the smart dimmer to the electrical box. Do not fully tighten the screws.
installation & setup

step five | test the smart dimmer

**NOTE:** See page 20 for feature details.

1. Turn the power back on at the circuit breaker.
2. Press the paddle switch to turn your light on and off.
3. Use the dimmer paddle to adjust the level of your light(s).

**TROUBLESHOOTING TIP:**
If the device is not powering, reference the “faqs” on page 23 to determine if you have reversed the “hot” and “load” wiring.
step six | attach the screwless wall plate

1 Noting which side faces out, align the sub-plate over the device screws. Use the sub-plate screws (provided) to secure the sub-plate to the smart dimmer.

2 Tighten the device screws to secure the smart dimmer to the electrical box.

3 Angle the UP end of the screwless wall plate over the top edge of the sub-plate. Push the screwless wall plate down and in until it “snaps” into place over the sub-plate.

NOTE: To remove the wall plate, place the tip of a flat blade screwdriver into the slot under the wall plate and twist gently.
installation & setup

step seven | set up your system

1. Download and launch the Smart Lights app by Legrand. The app is available on the App Store or on Google Play.

2. Connect your smart dimmer to your home network by following the step-by-step instructions in the app.

3. Use the app to control your smart dimmer.

Google Play and the Google Play logo are trademarks of Google LLC. App Store is a service mark of Apple Inc., registered in the U.S. and other countries.
## getting to know your dimmer

<table>
<thead>
<tr>
<th>Item</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
</table>
| 1    | Paddle Switch                             | • Press the top of the paddle to turn the light on or double-tap to raise the dimming percentage to 100%  
     |                                            | • Press the bottom of the paddle to turn the light off                      |
|      |                                           | • To return the dimmer to factory default, press and hold both ends of the paddle for 30 seconds |
| 2    | LED Locator Light                        | Indicates the current state of the device. Refer to “LED Locator Light Explanations” for detail. |
| 3    | Dimmer Paddle and LED Light Level        | Controls and displays the dimming percentage:                               |
|      |                                            | • Press (+/-) to adjust the dimming percentage in 2% increments.           |
|      |                                            | • Press and hold (+/-) to quickly change the dimming percentage by 20% per second. |
| 4    | Air Gap Switch                            | Completely turns off the dimmer. Use when changing light bulbs.            |
### LED LOCATOR LIGHT EXPLANATIONS

<table>
<thead>
<tr>
<th>LED Color</th>
<th>State of Light</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid Amber</td>
<td>Factory default; ready to connect to your network</td>
<td></td>
</tr>
<tr>
<td>Blinking Amber</td>
<td>Device is attempting to connect to the network</td>
<td></td>
</tr>
<tr>
<td>Solid White</td>
<td>Device is connected to your network and is switched off</td>
<td></td>
</tr>
<tr>
<td>Blinking Red</td>
<td>Warns of an overload or short circuit while your device is on</td>
<td></td>
</tr>
</tbody>
</table>

**NOTE:** When it is turned on, the dimmer recalls the most recent dimming level.
De-rating of the dimmer is not required for reverse phase applications. For forward phase applications in two-gang installations, de-rate incandescent, halogen, or electronic low voltage (ELV) loads to 600 Watts; in three-gang or greater installations, de-rate incandescent, halogen, or electronic low voltage (ELV) loads to 600 Watts on the outer units and 500 Watts on the center units.

### RATING CHART

<table>
<thead>
<tr>
<th>Load</th>
<th>Single-Gang</th>
<th>Dual-Gang</th>
<th>Three-Gang</th>
</tr>
</thead>
<tbody>
<tr>
<td>Incandescent/Halogen/ELV (FWD)</td>
<td>700 W</td>
<td>600 W / 600 W</td>
<td>600 W / 500 W / 600 W</td>
</tr>
<tr>
<td>Incandescent/Halogen/ELV (REV)</td>
<td>450 W</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CFL/LED/EFL (FWD)</td>
<td>450 W / 3.8 A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CFL/LED/EFL (REV)</td>
<td>250 W / 2.1 A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Magnetic Low Voltage (FWD)</td>
<td>500 VA</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Legrand reserves the right to change specifications without notice.

**NOTE:** The dimmer ships in forward phase mode to accommodate most load types. For loads that require reverse phase dimming, such as ELV loads, adjust the phase using the app.
Q: Which wire is the “hot” wire versus the “load” wire?

A: To determine this safely, begin by confirming that power is off to the device location at the circuit breaker. Cap all of the exposed wires in the electrical box, then turn the power back on to the device location. Find your non-contact voltage tester. Place your voltage tester next to each of the wires. The voltage tester should indicate which of the two wires is receiving power from the circuit box (refer to the voltage tester’s user manual for details on operation). The “hot” wire is the powered wire.

To safely complete your wiring, turn off power at the circuit breaker until the device is secured into the wall.
FCC NOTICE
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 undesirable 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
regulatory information

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 20 cm between the transmitter’s radiating structure(s) and the body of the user or nearby persons.

**NOTE:** Any changes or modifications to this device that are not expressly approved by the manufacturer will void the warranty and the user’s authority to operate the equipment.

FCC ID: A3LCWAM210S

WiFi® is a registered trademark of Wi-Fi Alliance®.
IC NOTICE
This device complies with Industry Canada license-exempt RSS standards. 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.

RF EXPOSURE STATEMENT
This equipment meets the SAR evaluation limits given in RSS-102 Issue 5 requirements at the minimum separation distance of 15 mm to the human body. Note: Any changes or modifications to this device that are not expressly approved by the manufacturer, will void the warranty and the user’s authority to operate the equipment.

IC ID: 649E-CWAM210S
This product is warranted under normal use against defects in workmanship and materials for as long as you own it. If the product fails due to a manufacturing defect during normal use, return it for a replacement at the store where purchased or contact technical support at 1-877-833-3303.

A dated sales receipt must be provided for all replacement requests (legible copies are acceptable).

Additional warranty details are available at [http://www.legrand.us](http://www.legrand.us) under your device’s product page.
support

IF YOU NEED HELP INSTALLING YOUR SMART DIMMER, TALK TO OUR TECHNICAL SUPPORT TEAM:

PHONE: 1-877-833-3303
   8:00 a.m. to 8:00 p.m. EST (M-F)

EMAIL: smartlighting@legrand.us

CHAT: https://www.legrand.us/radiant/smart-lighting.aspx
   (Click on the icon to open a dialogue box)