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Lutron PD-6WCL-BL

Lutron Caseta Original Smart Dimmer Switch (PD-6WCL-BL) Instruction Manual

Model: PD-6WCL-BL

INTRODUCTION

The Lutron Caseta Original Smart Dimmer Switch provides convenient control over your lighting. This dimmer is designed for use with dimmable LED, incandescent, and halogen bulbs, offering adjustable brightness levels. It integrates with various smart home systems when connected to a Lutron Smart Hub (sold separately) and does not require a neutral wire for installation.

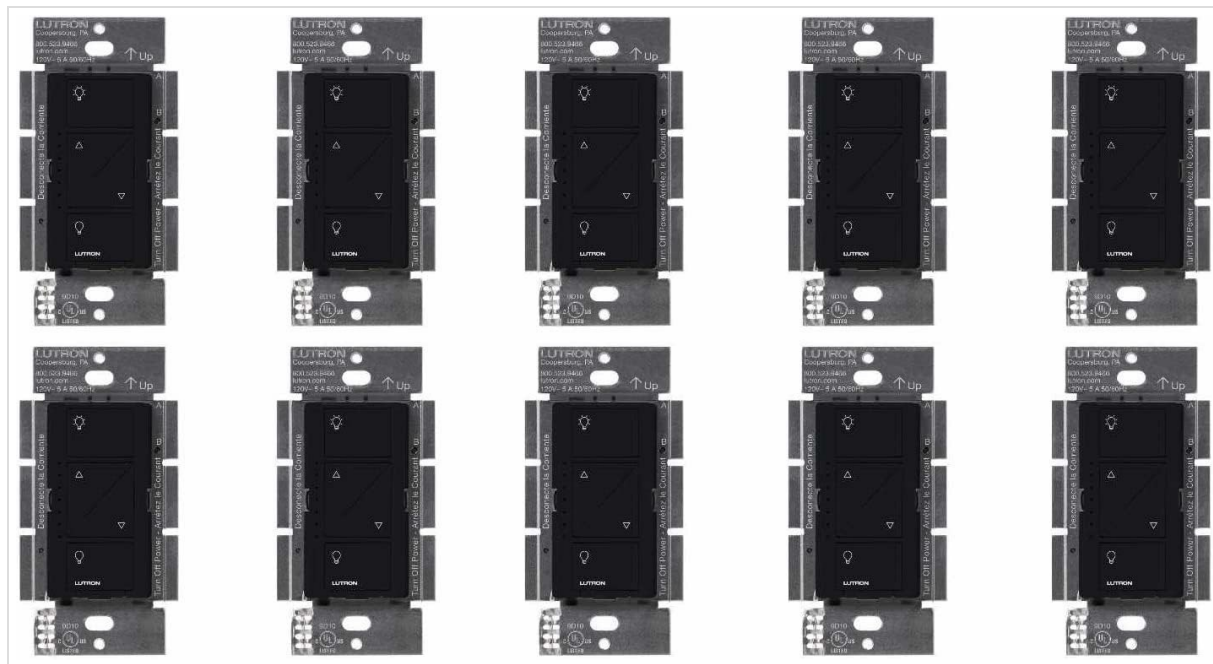


Image: Lutron Caseta Original Smart Dimmer Switch, showcasing its design.

SAFETY INFORMATION

WARNING: SHOCK HAZARD. May result in serious injury or death. Turn off power at the circuit breaker or fuse before installing. All wiring must be performed in accordance with national and local electrical codes. If you are unsure about any part of these instructions, consult a qualified electrician.

WHAT'S IN THE BOX

- Dimmer Switches (10 units for this pack)

SETUP AND INSTALLATION

This section provides instructions for installing your Lutron Caseta Smart Dimmer Switch. Ensure power is off at the circuit breaker before beginning.

General Installation Steps

1. **Turn Off Power:** Locate your circuit breaker panel and turn off the power to the switch location. Verify power is off by attempting to turn on the light.
2. **Remove Existing Switch:** Carefully remove the wall plate and unscrew the existing switch from the wall box.
3. **Identify Wires:**
 - **Ground Wire:** Typically a bare copper or green wire.
 - **Hot/Load Wires:** The Lutron Caseta dimmer does not require a neutral wire. Identify the wires connected to your existing switch.
4. **Wire the Caseta Dimmer:** Connect the wires from the wall box to the Caseta dimmer as instructed below.
5. **Mount the Dimmer:** Secure the Caseta dimmer into the wall box using the provided screws.
6. **Attach Wall Plate:** Install the new wall plate (sold separately) over the dimmer.
7. **Restore Power:** Turn the power back on at the circuit breaker.

Wiring Diagram Example



Image: Example wiring diagram for a Lutron Caseta dimmer.

3-Way Installation with Pico Remote

For 3-way applications where lights are controlled from two locations, you can replace one switch with the Caseta dimmer and the other with a wireless Pico remote (sold separately) mounted over the existing backbox.

Video: This video demonstrates the 3-way installation process for the Lutron Caseta Dimmer, showing how to replace existing switches and integrate with a Pico remote.

OPERATING INSTRUCTIONS

The Lutron Caseta dimmer offers multiple ways to control your lights:

- **Manual Control:** Use the buttons directly on the dimmer switch.
- **Lutron App:** Control lights remotely via the free Lutron app on your smartphone or tablet.
- **Voice Control:** Integrate with smart home assistants like Alexa, Apple Home, or Google Assistant (Lutron Smart Hub required).
- **Pico Remote:** Use a wireless Pico remote for convenient control from anywhere in your home.

Dimmer Button Functions



Image: Diagram illustrating the functions of each button on the Caseta Smart Dimmer: top button for on, bottom for off, up/down arrows for dimming/brightening, and LEDs indicating brightness level.

App and Voice Control

With the Lutron Smart Hub (L-BDG2-WH, sold separately), you can connect your Caseta dimmers to the Lutron app and various smart home platforms for advanced control.

Video: This video highlights the benefits of Caseta smart lighting, including app and voice control capabilities.

ADJUSTING THE DIMMING RANGE

To optimize bulb performance and prevent flickering, you may need to adjust the low-end trim of your dimmer. This ensures the dimmer operates within the optimal range for your specific LED bulbs.

1. **Enter Programming Mode:** Pull the front accessible service switch (FASS) out to the open position.
2. **Hold Off Button:** Push and hold the OFF button on the dimmer for approximately 6 seconds until the LED bar blinks.
3. **Adjust Low-End:** Release the OFF button and use the up/down arrows to adjust the low-end level until the desired minimum brightness is achieved without flickering.
4. **Save Setting:** Push the FASS back into the closed position to save the new trim level.

MAINTENANCE

The Lutron Caseta dimmer is designed for long-term, maintenance-free operation. Periodically clean the surface with a soft, damp cloth. Avoid using abrasive cleaners or solvents.

TROUBLESHOOTING

- **Lights Not Turning On/Off:** Ensure power is restored at the circuit breaker. Check wiring connections.
- **Lights Flickering:** Adjust the dimming range (low-end trim) as described in the 'Adjusting the Dimming Range' section. Ensure your bulbs are dimmable.
- **Dimmer Not Responding to App/Voice:** Verify the Lutron Smart Hub is connected and online. Check app settings and smart assistant integration.
- **Pico Remote Not Working:** Ensure the Pico remote is properly paired with the dimmer. Check the battery in the Pico remote.

SPECIFICATIONS

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|--------------------|----------------------------------------|
| Product Dimensions | 1.13 x 2.93 x 4.69 inches; 4.96 ounces |
| Item Model Number | PD-6WCL-BL |
| Operation Mode | Automatically, Off, Smart Switch |
| Current Rating | 2 Amps |
| Operating Voltage | 120 Volts |
| Contact Type | Normally Open |
| Circuit Type | 3-way |


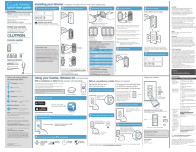
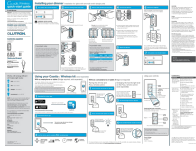
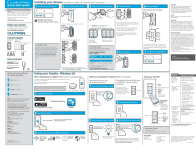

WARRANTY AND SUPPORT

For warranty information and technical assistance, please refer to the official Lutron website or contact Lutron customer support. Lutron offers 24/7 support for their products.

Video: Lutron provides 24/7 customer support for their products.
Visit the [Lutron Store](#) for more products and information.

Related Documents - PD-6WCL-BL

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| <div>User Manual of Product 1: Lutron Caséta Smart Dimmer Switch for ELV+ Bulbs, 200W LED, 120-240 VAC, White</div> | <div>Lutron Caséta Smart Dimmer Switch for ELV+ Bulbs (PD-5NE-WH): User Manual & Specifications Comprehensive user manual and specification submittal for the Lutron Caséta Smart Dimmer Switch (PD-5NE-WH), detailing features, specifications, operation, mounting, dimensions, wiring diagrams, and color finishes for ELV+ bulbs.</div> |
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|  | <p>Lutron Caséta Wireless In-Wall Dimmer PD-6WCL Quick Start Guide</p> <p>Quick start guide for installing and using the Lutron Caséta Wireless In-Wall Dimmer (Model PD-6WCL). Learn about setup, compatibility, controls, and troubleshooting.</p> |
|  | <p>Caséta Wireless ELV+ Dimmer Quick-Start Guide</p> <p>Quick-start guide for installing and using the Lutron Caséta Wireless ELV+ Dimmer (PD-5NE). Learn about setup, compatibility with LED, Halogen, and Incandescent bulbs, and smart home integration with smartphones, tablets, and Pico remotes.</p> |
|  | <p>Lutron Caséta Wireless In-Wall Dimmer Quick-Start Guide</p> <p>Comprehensive guide to installing and using the Lutron Caséta Wireless In-Wall Dimmer (PD-6WCL), including setup with smartphones, tablets, and Pico remotes.</p> |
|  | <p>Lutron Caséta Wireless In-Wall Dimmer & Pico Remote Quick Start Guide</p> <p>Comprehensive quick start guide for installing and using the Lutron Caséta Wireless in-wall dimmer and Pico remote control, including setup, pairing, and troubleshooting. Learn how to replace existing switches, connect wiring, and integrate with smart home systems.</p> |
|  | <p>Lutron Caséta Wireless In-Wall Dimmer Installation and User Guide</p> <p>Comprehensive guide for installing and using the Lutron Caséta Wireless in-wall dimmer (PD-6WCL). Learn how to wire, pair with Pico remotes, and control lights via smartphone or tablet.</p> |