

**Lutron PD-6WCL-BL**

# Lutron Caseta PD-6WCL-BL Smart Dimmer Switch Instruction Manual

Model: PD-6WCL-BL

## PRODUCT OVERVIEW

The Lutron Caseta PD-6WCL-BL Smart Dimmer Switch offers convenient and customizable lighting control for your home. This dimmer is designed for use with dimmable LED, incandescent, and halogen bulbs, providing smooth adjustment of light levels. It integrates with various smart home systems, allowing for app, voice, or direct wall control. A Lutron Smart Hub (L-BDG2-WH) is required for smart features.

Key features include:

- **Broad Compatibility:** Connects with leading smart home devices like Alexa, Apple Home, Google Assistant, and Sonos (Lutron Smart Hub required).
- **Modern Aesthetic:** Sleek design with full control for on/off and brightness adjustment.
- **Versatile Bulb Support:** Works with up to 150W dimmable LED or 600W incandescent/halogen bulbs.
- **Multiple Control Options:** Control via the free Lutron app, voice commands, or directly from the wall.
- **No Neutral Wire Required:** Simplifies installation in many homes.
- **Flexible 3-Way Setup:** Easily replace existing 3-way switches or create new ones with a wireless Pico remote (sold separately).

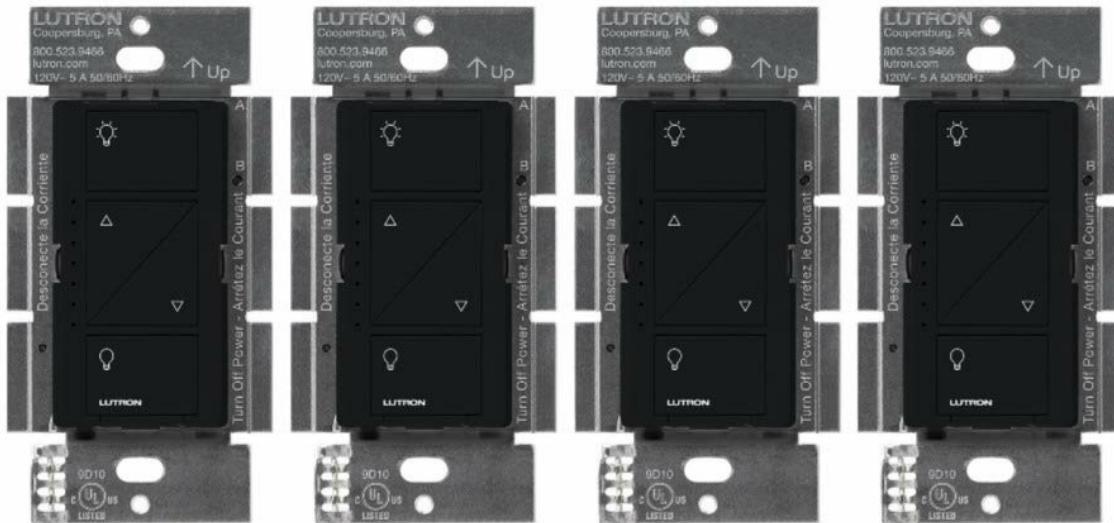


Image: Front view of the Lutron Caseta PD-6WCL-BL Smart Dimmer Switch.

## SETUP AND INSTALLATION

Installation of the Lutron Caseta Smart Dimmer is designed to be straightforward. Always ensure power is turned off at the circuit breaker before beginning any electrical work.

### Tools Required

- Flathead screwdriver
- Phillips head screwdriver
- Pliers
- Electrical tape (for marking wires)

### Wiring Instructions (Single-Pole/3-Way)

1. **Turn Off Power:** Locate the circuit breaker controlling the light switch and turn it OFF. Verify power is off

at the switch location.

2. **Remove Existing Switch:** Carefully remove the wall plate and unscrew the existing switch from the wall box.
3. **Identify Wires:** The Caseta dimmer does not require a neutral wire. You will typically connect the ground wire (bare copper or green) to the green wire on the dimmer. The two black wires on the dimmer are interchangeable for line/load connections.
4. **Connect Wires:** Follow the detailed wiring diagrams provided in the official Lutron installation guide or refer to the instructional videos below. Ensure all connections are secure using wire nuts (provided).
5. **Mount Dimmer:** Gently push the wired dimmer into the wall box and secure it with screws. Attach the new wall plate (sold separately).
6. **Restore Power:** Turn the circuit breaker back ON.

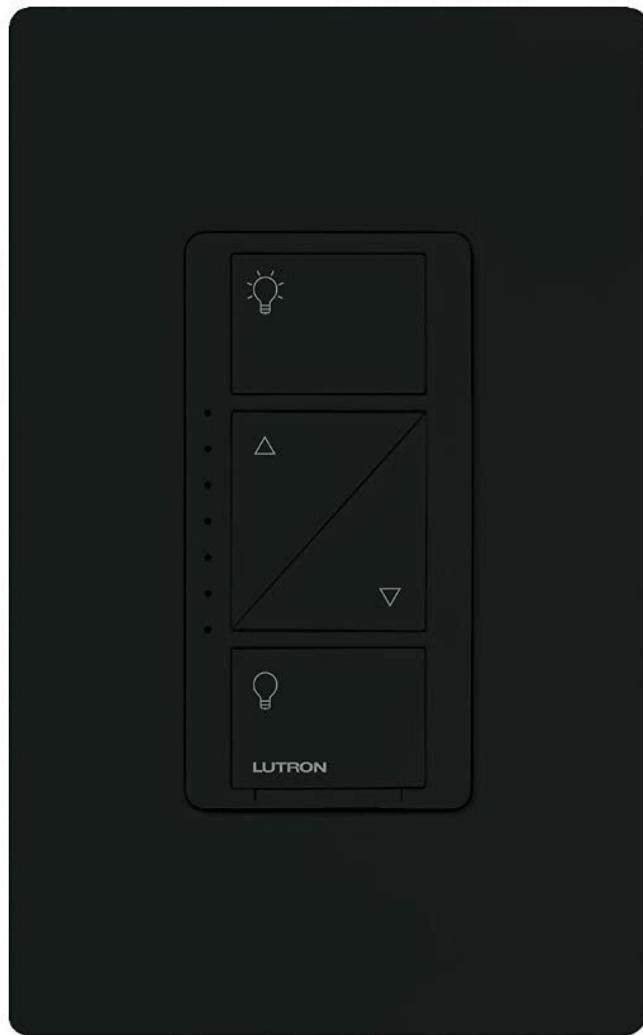


Image: Back view of the Lutron Caseta PD-6WCL-BL Smart Dimmer Switch, showing wiring terminals.

## Smart Hub Setup (Required for Smart Features)

To enable app control, voice commands, and smart home integration, a Lutron Smart Hub (L-BDG2-WH, sold separately) is required. Connect the Smart Hub to your Wi-Fi router via Ethernet and power it on. Download the free Lutron App and follow the in-app instructions to add your dimmer switch and Pico remotes.

## Installation Videos

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Video: Official Lutron guide on installing Caseta dimmers. This video provides a step-by-step visual walkthrough of the installation process.

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Video: Official Lutron guide on installing the Diva Smart Dimmer in a wired 3-way configuration. This video demonstrates specific wiring for multi-location control.

## OPERATING INSTRUCTIONS

The Lutron Caseta Smart Dimmer offers multiple ways to control your lighting.

### Physical Control on the Dimmer

- **On/Off:** Press the large paddle at the top to turn lights ON, and the large paddle at the bottom to turn lights OFF.
- **Dim/Brighten:** Use the small buttons on the side to adjust the brightness level.
- **Favorite Level:** The dimmer can be programmed to recall a favorite light level with a single press.

### Lutron App Control

With the Lutron App and Smart Hub, you can control your lights from anywhere:

- **Remote On/Off/Dim:** Adjust lights directly from your smartphone or tablet.
- **Scheduling:** Create custom schedules for lights to turn on/off or dim at specific times (e.g., sunset/sunrise).
- **Scenes:** Group multiple lights and set them to specific brightness levels with a single tap.
- **Smart Away:** Randomly turn lights on/off while you're away to give the appearance of being home.

### Voice Control

Integrate your Caseta system with voice assistants like Amazon Alexa, Apple Home, or Google Assistant for hands-free control. Simply use voice commands to turn lights on/off, dim, or activate scenes.

### Pico Remote Control (Sold Separately)

The wireless Pico remote provides additional convenience for controlling your lights from anywhere in the home. It can be used handheld or mounted to almost any wall surface to create a multi-location switch without additional wiring.



Image: Lutron Caseta Dimmer Switch with a Pico remote, illustrating multiple control options.

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## MAINTENANCE

The Lutron Caseta Smart Dimmer is designed for long-term, maintenance-free operation. Keep the device clean by wiping it with a soft, damp cloth. Do not use chemical cleaners.

For optimal performance, ensure your connected bulbs are dimmable and compatible with the dimmer's specifications.

## TROUBLESHOOTING

If you experience issues with your Lutron Caseta Smart Dimmer, consider the following:

- **Flickering Lights:** If lights flicker at low dimming levels, you may need to adjust the dimmer's trim level. This can typically be done through the Lutron app settings for the specific dimmer.
- **Lights Not Responding:** Ensure the circuit breaker is ON and the dimmer is properly wired. Check the Lutron app for device status and connectivity to the Smart Hub.
- **App Connectivity Issues:** Verify your Lutron Smart Hub is connected to your Wi-Fi router and has power. Restarting the router and hub may resolve connectivity problems.
- **Incompatible Bulbs:** Ensure all bulbs connected to the dimmer are explicitly labeled as dimmable. Non-dimmable bulbs can cause flickering or damage.

## SPECIFICATIONS

Feature	Detail
Model Number	PD-6WCL-BL
Brand	Lutron
Color	Black
Wattage	150 watts (LED/CFL), 600 watts (Incandescent/Halogen)
Operating Voltage	120 Volts
Current Rating	2 Amps
Circuit Type	3-way (with Pico remote)
Neutral Wire Required	No
Control Method	Voice, App, Manual

Product Dimensions	1.13 x 2.93 x 4.69 inches
Item Weight	15.8 ounces

## WARRANTY AND SUPPORT

Lutron products are known for their reliability and quality. While specific warranty details are not provided here, Lutron typically offers a limited warranty on its products. Please refer to the official Lutron website or your product packaging for detailed warranty information.

For any questions or assistance, Lutron provides 24/7 customer support.

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Video: Official Lutron video highlighting their 24/7 customer support services.

[For further assistance, please visit the Lutron Store or contact Lutron customer service.](#)

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