Installation Guide

WALL SWITCH

Battery or Wired Wall Switch



INTRODUCTION

About This Guide

This guide provides instructions for installing the SWITCH-B and SWITCH-W, Luum wireless wall switches. In addition to the step-by-step installation process, this guide provides instructions on how to configure the wall switch, as well as some basic troubleshooting steps.

Cautions and Warnings

When installing hardware, it is important to follow safety precautions to avoid potential injuries or damage to the equipment. Failure to follow safety guidelines can result in electric shock, fire, or other hazards.

Definitions

NOTE

A note provides additional information or clarification that is relevant to the installation process. It may include recommendations, tips, or other useful information that can help ensure a successful installation.

CAUTION

A caution statement indicates a potential hazard that could result in minor or moderate injury, or cause damage to the product if appropriate precautions are not taken. It alerts the reader to a potential risk and provides instructions on how to avoid it.

DANGER

A danger statement indicates a potential hazard that could result in serious injury or death if appropriate precautions are not taken. It alerts the reader to a critical risk that requires immediate attention to prevent harm.

Safety Precautions

CAUTION

- This device is for indoor use only.
- Disassembling any part of the unit voids the warranty and regulatory certifications. There are no user-serviceable parts inside the unit.

PRODUCT OVERVIEW

The SWITCH-B and SWITCH-W are wireless wall switches, capable of controlling scenes. They connect to wireless networks via the Luum Border Router (AMBR).

- 24V wired or battery power options.
- Surface and gang mount options.
- Cloud connection via AMBR, uploading real-time data from your site to the Luum config app.

INSTALLATION

Parts List

Before getting started with the installation process, it's important to make sure all the necessary components are included. Here's what should be found inside the box:

- (1) Wall Switch
- (2) Wall Box Screws (gang mount version only)

Placement

Follow these guidelines when deciding on where to install the wall switch:

- When using the surface mount switch, use double sided tape to secure it to a surface.
- The gang mount switch is intended to be installed in an electrical box or wall box.
- The wall switch should be installed within 75' of an AMBR or other wireless node.



Surface Mount



Gang Mount

DISTANCE LIMITATIONS

The Luum system supports communication ranges up to 75' for wall switches with a clear line of site. Obstacles such as walls or floors will impact the communication ranges significantly.

Wiring

The SWITCH-W has two wires for a low voltage 24V DC input. The SWITCH-B does not need to be connected to power, but the battery tabs need to be pulled.

NOTE

The input wires are polarity protected, either can be positive or negative.

Labeling and MAC Capture

After installing any Luum wireless device, it is imperative to note the device ID with the associated load/fixture/device. This is how the devices will be identified during programming. It is also a good idea to label any Luum load controllers with the load they are controlling.

> **NOTE**
> The device ID can be found on the device's packaging or the device itself.

INITIAL SETUP

Necessary Parts

Review the following list to ensure all necessary parts are available:

1. An active AMBR within communication range of the wall switch.
2. Active power to the wall switch (SWITCH-W) or the battery tabs pulled (SWITCH-B).

Device Configuration

Perform the following steps to configure the device:

1. Open the Luum app and navigate to the site.
2. Open the Devices table and ensure a device with the ID noted in the previous step is active.

> **BATTERY SWITCH**
> When using a SWITCH-B, the device may need to be "awake" before it will show up in the Devices table. See Button operation below for instructions.

The device is now ready to be added to a location and programmed with the Luum app.

Updating Firmware

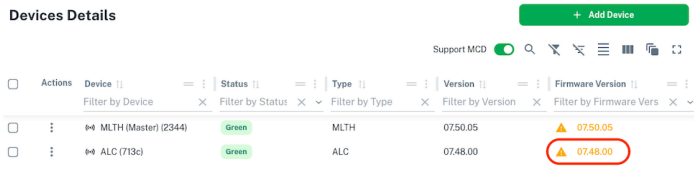
Both SWITCH-B and SWITCH-W support firmware updates in the field using the Luum app. Perform the following steps to update the device's firmware:

> **BATTERY SWITCH**
> When using a SWITCH-B, the device must be awake for the firmware update. See Button operation below for instructions.

1. Open the Luum app and navigate to the site.
2. Open the Devices table and find the device to be updated.

3. Make sure the **Firmware Version** column is visible. If the firmware is out of date, it will show a yellow alert and yellow text.

4. Click on the out-of-date firmware entry to request a firmware update.



Firmware Update Button

NOTE

Depending on how out of date the firmware is, the programming may need to be synced to the devices after a firmware update.

RELATED INFORMATION

Basic Troubleshooting

Perform the following steps for basic troubleshooting of the device:

1. Verify the device is operating normally using the LED Troubleshooting Matrix below.

2. Verify the wall switch has power by pressing the top or bottom button and confirming a green LED flashes in the top right corner of the switch.

LED Indicator Troubleshooting

Use the following table to troubleshoot specific issues with the device based on the LED indicators:

LED Troubleshooting Matrix

LED Color	State	Description
Off	Off	Normal operation No power to device if the LED is off when a button is pressed
Green	3 Second flash	Startup
Green	Rapid flash	Awake mode
Green	Single flash	Normal operation for button press
Green	On	Factory reset in progress

Button Operation

The wall switch has a top and a bottom button.

Button Operation

Action	Button	Behavior
1 Press	Top or Bottom	Programmable scene
Hold	Top or Bottom	Programmable scene
5 Second Hold	Top and Bottom	Awake mode (SWITCH-B only)
10 Second Hold	Top and Bottom	Factory Reset

To wake a SWITCH-B for a firmware update, hold the top and bottom buttons together for 5 seconds, then release them. A rapidly flashing green LED indicates awake mode. Do not continue holding for 10 seconds, as this performs a factory reset.

Technical Support

If you experience any issues during installation or operation of this product, contact our technical-support team via email at support@luum.io. Please provide a detailed description of the issue, including any error messages or other relevant information.

Warranty

All Luum.io lighting products and controls come with a 5-year parts warranty. We warrant that our products will be free from defects in material and workmanship for a 5-year period from the date of purchase. Defective products under warranty will be replaced with an equal or higher-quality product.

If you experience any issues during the warranty period, we will repair or replace the product at no charge. To initiate a warranty claim, contact our customer-service team at support@luum.io. For additional support options, visit luum.io.

> **NOTE**
> The Luum Border Router (AMBR) connected to your affected device must have remained connected to the Luum cloud via the internet or cellular connection from the start of site commissioning to the date of return request. Non-connected systems are eligible for a 2-year limited warranty (730 days) from shipment date.

Contacts

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Document Feedback

While we have taken great care to ensure the accuracy and completeness of this document, we welcome your feedback and suggestions. If you notice any errors or omissions, or feel a topic could benefit from further explanation, please email your feedback to support@luum.io.

Revision History

Date	Revision	Notes
6/27/2023	A	Initial Switch install guide release
4/29/2026	B	Port to PDF
11/13/2026	C	Clarified field firmware updates and battery switch awake mode.

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