

Zūm™ Mesh Wireless J-Box Load Controllers

The Crestron® ZUMMESH-JBOX load controller provides sophisticated lighting control with simple installation. The ZUMMESH-JBOX mounts directly to a 4 in. square junction box and pairs wirelessly with one or more Zūm wireless keypads.

The following ZUMMESH-JBOX Devices are available:

- ZUMMESH-JBOX-5A-LV: 0-10 V Dimmer, 5 A, 100-277 V
- ZUMMESH-JBOX-16A-LV: 0-10 V Dimmer, 16 A, 100-277 V
- ZUMMESH-JBOX-16A-LV-EM: 0-10 V Dimmer, 16 A, 100-277 V, Emergency Load Controller
- ZUMMESH-JBOX-20A-SW: High Inrush Switch, 20 A, 100-277 V
- ZUMMESH-JBOX-20A-PLUG: Plug Load Switch, 20 A, 100-240 V
- ZUMMESH-JBOX-PSU: Power Supply



In the Box

- 1 ZUMMESH-JBOX, Zūm™ Mesh Wireless J-Box Load Controller

Additional Items

- 1 Yellow Wire Nut, 22-10 AWG (2049245)
- 1 Locknut (2047626)

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Installation

WARNING: To avoid fire, shock, or death, turn off the power at the circuit breaker or remove the fuse and test that the power is off before wiring!

NOTES:

- Install and use this product in accordance with appropriate electrical codes and regulations.
- A licensed electrician should install this product.
- The product should project 3-11/16 in. (93 mm) from the junction box when installed.
- For a Chicago plenum compliant installation, refer to the ZUMMESH-JBOX-FMKT-CP Quick Start (8461) at www.crestron.com/manuals.

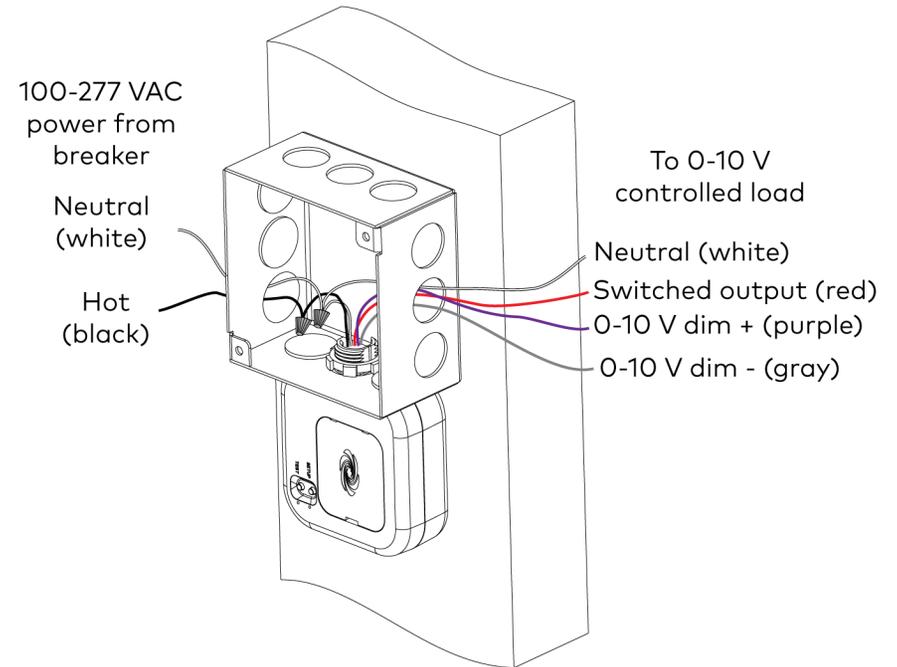
To install a ZUMMESH-JBOX:

1. Turn the power off at the circuit breaker.

NOTE: When installing a ZUMMESH-JBOX-16A-LV-EM, ensure that any backup power source is also off.

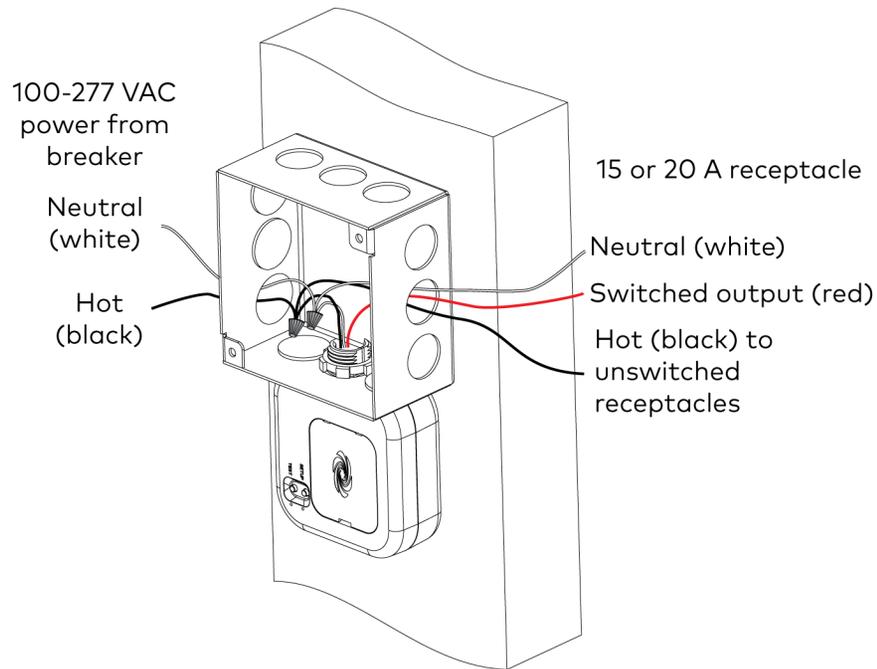
2. Mount the ZUMMESH-JBOX to the J-Box using the included locknut.
3. Wire the ZUMMESH-JBOX as shown in the following diagrams.

ZUMMESH-JBOX-5A-LV, ZUMMESH-JBOX-16A-LV, and ZUMMESH-JBOX-20A-SW Wiring

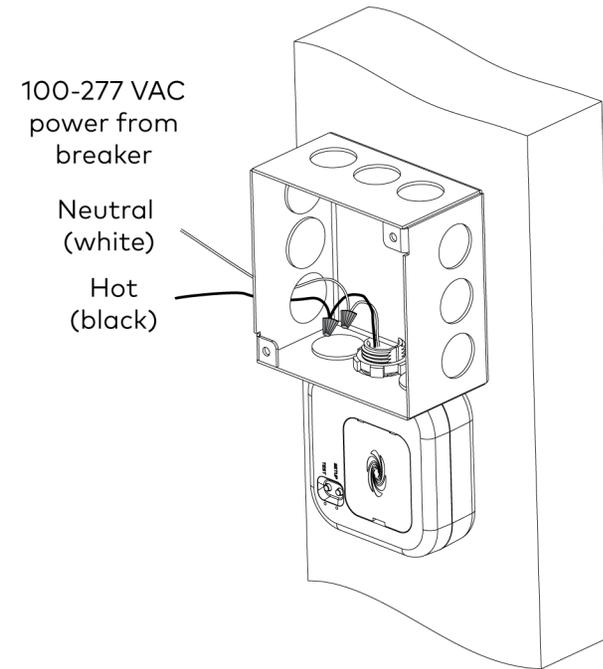


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ZUMMESH-JBOX-20A-PLUG Wiring

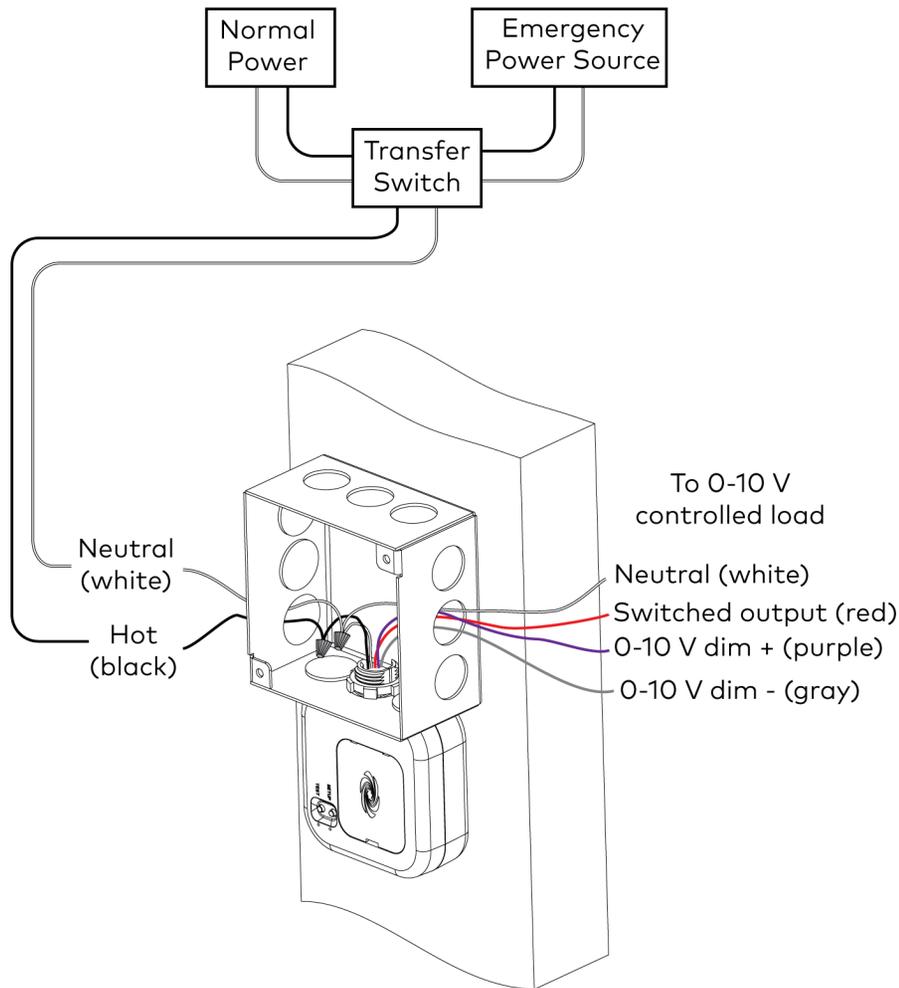


ZUMMESH-JBOX-PSU Wiring



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ZUMMESH-JBOX-16A-LV-EM Wiring



IMPORTANT SAFEGUARDS:

When using electrical equipment, basic safety precautions should always be followed including the following:

READ AND FOLLOW ALL SAFETY INSTRUCTIONS.

- Do not mount near gas or electric heaters.
- Equipment should be mounted in locations and at heights where it will not be subjected to tampering by unauthorized personnel.
- The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
- Do not use this equipment for other than its intended use.

SAVE THESE INSTRUCTIONS

WARNING: The installation and the use of this product within a specific installation must be approved by an applicable local, state, or federal Authority Having Jurisdiction (AHJ). All installations must be performed by qualified personnel according to applicable local and regional codes and standards. Requirements vary between jurisdictions.

NOTES:

- When wiring a ZUMMESH-JBOX-16A-LV-EM, ensure that power is routed through a transfer switch for emergency load control.
- After normal power is lost, 200 ms (120 V) or 750 ms (277 V) must pass before the ZUMMESH-JBOX-16A-LV-EM is powered by an emergency power source.

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Emergency Lighting

The ZUMMESH-JBOX-16A-LV-EM provides emergency load control to meet UL® 924 standards. Refer to [Installation](#) to install the device.

The device operates as a standard J-box load controller in normal conditions, where it can bind to keypads, make scene modifications, follow sensor control states, and perform any other actions that ZUMMESH-JBOX controllers can. When power to the lighting system is lost, the device enters Emergency Mode.

In Emergency mode, the device operates with the following behavior:

- All loads in the zone fully illuminate.
- Attached loads remain fully illuminated for 90 minutes or until normal power is restored to a non-emergency AC-powered device, whichever comes first.
- Keypads and any other user controls are disabled.
- Daylight sensors, occupancy sensors, and vacancy sensors are disabled.
- The **TEST** button toggles the connected load On and Off.

The device will exit Emergency mode and return to normal operation when normal power is restored. Communications with nonemergency devices continue when normal power is restored.

Test the Loads

To verify system wiring, the loads can be tested before setting up the Zūm space. Press the **TEST** button to toggle the connected loads on and off. Press and hold the **TEST** button to cycle the connected dimmers.



Creating and Modifying Zūm Spaces

How to Set Up a Zūm Space and Add Zūm Devices

Once all devices are physically installed in a board room or conference space, a new Zūm space can be created and devices added.

NOTES:

- Set up only one Zūm space at a time.
- For simplified setup of a Zūm space, use the Zūm app on a mobile device.

Create a New Zūm Space

Creating a Zūm space defines the area where the devices are located, such as a board room or conference room. A Zūm space is created with a keypad, dimmer or switch, a J-box device, or an AV Bridge.

NOTES:

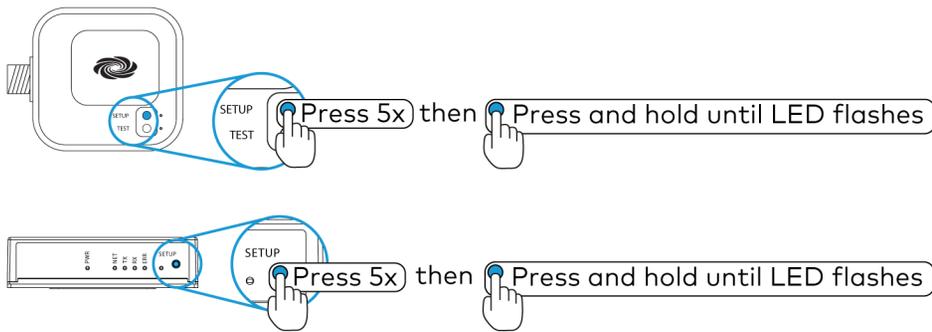
- Only one device in a space can create a Zūm space.
- A Zūm space cannot be created from a battery-powered keypad.

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Using a J-Box Device or AV Bridge

To create a new Zūm space using a J-box device or an AV Bridge:

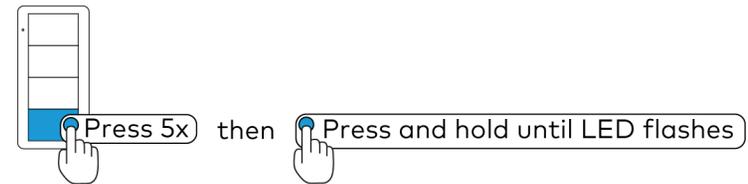
1. Press the **SETUP** button 5 times.
2. Press and hold the **SETUP** button until the LED on the device lights (about 10 seconds). After approximately 3 seconds, the device LED begins flashing slowly. This indicates that the Zūm space is now created and in Joining mode, allowing you to add devices.



Using a Keypad, Dimmer, or Switch

To create a new Zūm space using a keypad, dimmer, or switch:

1. Press the bottom button 5 times.
2. Press and hold the bottom button until the LED on the device lights (about 10 seconds). After approximately 3 seconds, the device LED begins flashing slowly. This indicates that the Zūm space is now created and in Joining mode, allowing you to add devices.



NOTE: The device used to create the Zūm space is automatically added to the space and does not need to be added in Step 2.

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Add Zūm Devices to the Zūm Space

After a new Zūm space is created, add Zūm devices while the space is in Joining mode.

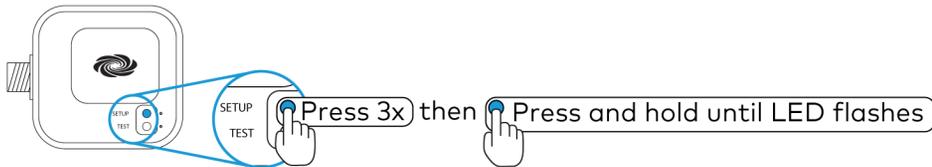
NOTES:

- To conserve battery power, battery-powered devices do not flash their LEDs after joining the space. AC-powered devices in the space will flash their LED to indicate that the space is in Joining mode.
- A Zūm mesh device can belong to only one space.
- Joining mode ends automatically after 4 minutes.

Adding a ZUMMESH-JBOX or AV Bridge

To add the ZUMMESH-JBOX or AV Bridge to a Zūm Space:

1. Press the **SETUP** button 3 times.
2. Press and hold the **SETUP** button until the LED on the device lights (up to 10 seconds). The LED on the device will start to flash slowly to indicate that it has joined the space.

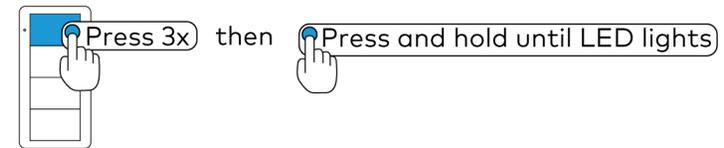


NOTE: Only one ZUMMESH-AVBRIDGE can be installed per Zūm space.

Adding a Keypad, Dimmer, or Switch

To add a keypad, dimmer, or switch to a Zūm space:

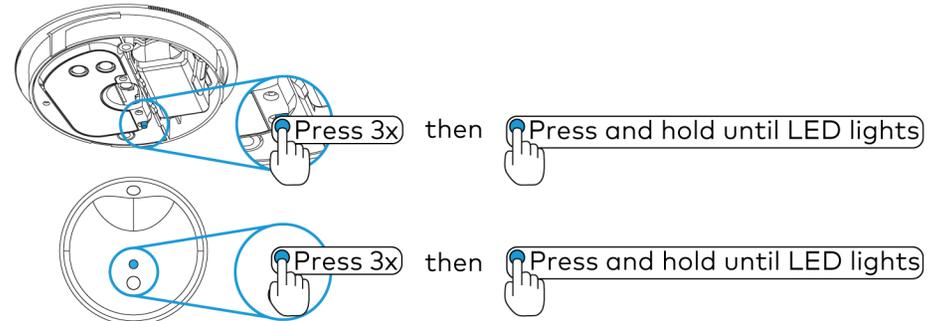
1. Press the top button 3 times.
2. Press and hold the button until the LED on the device lights (up to 10 seconds). The LED on the device will start to flash slowly to indicate that it has joined the space.



Adding a Photocell or Occupancy/Vacancy Sensor

To add a photocell or occupancy/vacancy sensor to a Zūm space:

1. Press the **SETUP** button 3 times.
2. Press and hold the button until the LED on the device lights (up to 10 seconds) to indicate that it has joined the space.



Complete Zūm Space Setup

To finish creating a Zūm space, press any button on an AC-powered device that is part of the Zūm space to exit Joining mode.

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Add a Zūm Device to an Existing Zūm Space

Add new Zūm devices to an existing Zūm space by placing the Zūm space in Joining mode.

Add the Zūm Device using a J-box device:

1. Enter Joining mode.
 - a. Press the **SETUP** button 2 times.
 - b. Press the **TEST** button once. The LEDs on all devices in the space (except battery-powered devices) flash slowly to indicate that the devices are part of the space and that the space is in Joining mode.

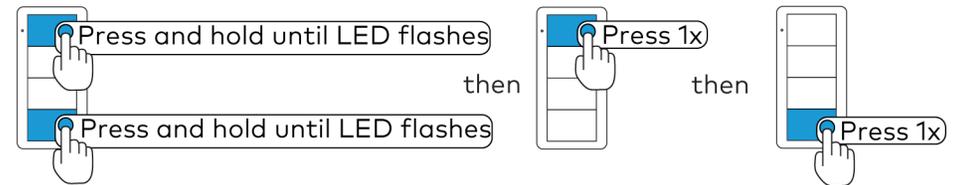


2. Add the Zūm Device according to [Add Zūm Devices to the Zūm Space](#).
3. Press any button on a device that is part of the Zūm space to exit Joining mode.

Using a Keypad, Dimmer, or Switch

Add the Zūm device using a keypad, dimmer, or switch:

1. Enter Joining mode.
 - a. Press and hold both the top and bottom buttons until the LED lights (about 5 seconds).
 - b. Press the top button once.
 - c. Press the bottom button once. The LEDs on all devices in the space (except battery-powered devices) flash slowly to indicate that the devices are part of the space and that the space is in Joining mode.



2. Add the device according to [Add Zūm Devices to the Zūm Space](#).
 - a. Press the **SETUP** button 3 times.
 - b. Press and hold the **SETUP** button until the LED on the ZUMMESH-JBOX lights (up to 10 seconds). The LED on the ZUMMESH-5A will start to flash slowly to indicate that it has joined the space.
3. Press any button on a device that is part of the Zūm space to exit Joining mode.

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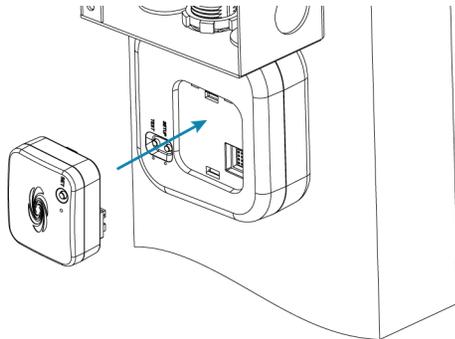
Attach a J-Box Module

A J-box module, such as the ZUMMESH-NETBRIDGE or ZUMMESH-CCO (both not included), can be attached to any J-box device.

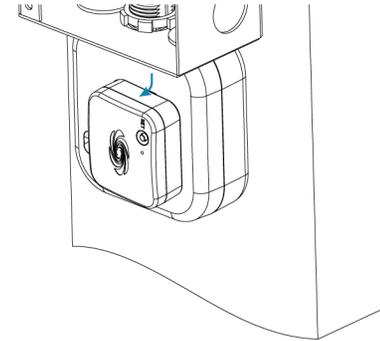
NOTE: For product specifications and additional installation details, refer to the ZUMMESH-NETBRIDGE Quick Start (Doc. 7955) or ZUMMESH-CCO Installation Guide (Doc. 7935) at www.crestron.com/manuals for details.

Attach the J-box module to the ZUMMESH-JBOX device.

1. Use a flat-head screwdriver to remove the cover on the ZUMMESH-JBOX device. Insert the flat-head screwdriver into the slot next to the cover and pry upward to remove the cover.
2. Align the ports on the J-box module and the ZUMMESH-JBOX device, and then insert the J-box module into the ZUMMESH-JBOX device. The J-box module snaps into place.



If the J-box module needs to be removed, place your thumb on the side of the J-box module that is closest to the J-box and gently push the module away from the J-box. The module should easily separate from the J-box device.



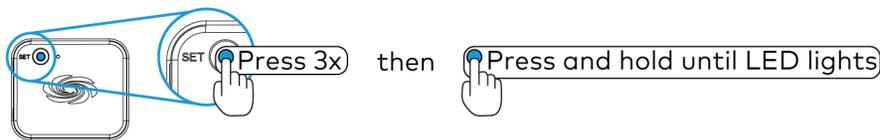
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Connect the Network Bridge to the Zūm Net Wireless Gateway

The Zūm Network Bridge connects wirelessly to the Zūm Net Wireless Gateway to form a centrally managed, enterprise-wide lighting control system.

Add the Zūm Network Bridge to the Zūm Net Wireless Gateway's network:

1. Press the **ACQUIRE** button on the Zūm Net Wireless Gateway to place the gateway into Acquire mode.
2. Join the Zūm Net Wireless Gateway's network.
 - a. Press the **SET** button on the Network Bridge 3 times.
 - b. Press and hold the **SET** button until the LED flashes once (up to 10 seconds). The LED on the Network Bridge flashes slowly to indicate that it is searching for a network to join.
 - The LED lights for 5 seconds when the network bridge successfully joins the gateway.
 - The LED flashes quickly to indicate that the network bridge failed to join the gateway. Press the **SET** button to acknowledge the failure and then repeat this procedure.



3. Press the **ACQUIRE** button on the gateway to exit Acquire mode.



Calibrate and Test the Daylight Sensor

To enable daylight harvesting, calibrate and then test the daylight sensor after all devices are installed and powered in the Zūm space.

NOTES:

- Only dimmers are capable of adjusting load levels that are driven by daylight sensor readings.
- Daylighting only operates when Scene 1 is enabled.
- Calibrate the daylight sensor during the day when the sun is bright. Avoid light fluctuations caused by clouds that are rapidly exposing and hiding the sun.
- Do not stand between the daylight sensor and the windows. Doing so affects the readings and can result in poor calibration settings.

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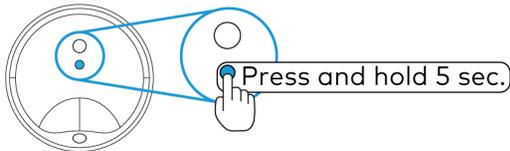
Calibrate the Daylight Sensor

To calibrate the Daylight Sensor:

1. Recall Scene 1 and adjust only the daylighting loads to the desired levels.

NOTES:

- Take the natural daylight levels into consideration when setting the load levels. Each dimmer can be set to a different level. Typically, lights closer to windows are dimmed more than lights away from windows.
 - To prevent daylighting from affecting a dimmer, set the lights on the dimmer to scene 1 or brighter.
2. Press and hold the button for 5 seconds to initiate the daylight calibration process. The LED flashes red to indicate that the calibration process is in progress. This process takes 60 seconds. During the calibration process, the lights cycle on and off. After the daylight calibration process is complete, the room enters Test mode. Refer to [Test the Daylight Sensor](#) for details.



Test the Daylight Sensor

Test mode is used to verify that the settings stored during calibration are correct. Changes to the amount of light in the space result in rapid light level adjustments.

NOTE: During normal operation, the light levels are adjusted slowly so that they are not distracting to occupants in the room.

To enter Test mode, press and hold the button for 2 seconds. When in Test mode, the LED flashes twice, pauses, then repeats. The device exits Test mode after 2 minutes.

To verify the daylight sensor settings, close the blinds or block the cover of the sensor to reduce the amount of light the sensor detects. The light levels will increase. Open the blinds or unblock the cover of the sensor to increase the amount of light the sensor detects. The light levels will decrease.



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Configure Keypads to Control Specific Loads

Keypads control all load controllers in the space (this is the default functionality). Use Binding mode to change the load controllers that are bound (controlled) or not bound (not controlled) by the keypad.

There are three methods of removing or changing loads that are bound to the keypad:

- Zūm App Binding configuration: Crestron recommends using the Zūm configuration app to bind keypads to specific loads. A mobile device with the Zūm app installed is needed.
- Local Binding configuration: Use when all load controllers are accessible.
- Remote Binding configuration: Use when a load controller is not accessible.

NOTES:

- Keypads do not control J-box plug controllers.
- Binding Mode exits after 5 minutes when initiated from an AC-powered keypad or 1 minute when initiated from a battery-powered keypad.

Zūm App Binding Configuration

The easiest way to bind keypads to specific loads is via the Zūm configuration app.

To change the load controllers that are bound to the keypad:

1. Open the Zūm configuration app and select the desired Zūm room.
2. Select the **Keypads** option from the **Configuration** menu. The **Keypads Grouping** menu will open. All keypads in the selected Zūm room are listed.

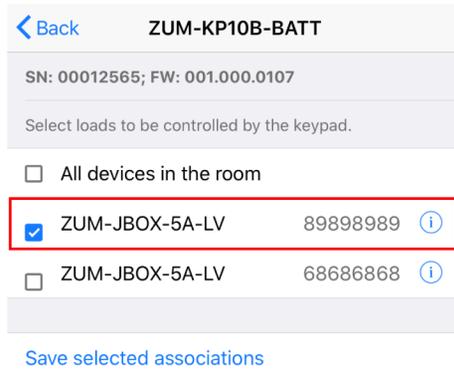


3. Double tap the top button on the keypad you wish to bind to a load. The keypad's menu appears in the Zūm configuration app. All devices in the Zūm room are listed.

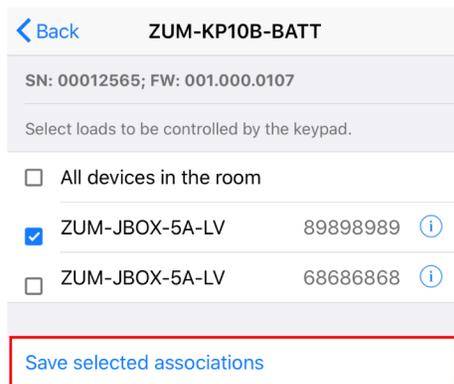
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- Tap the check box to the left of the device's name to bind the keypad to that device. When selected, the box will contain a check mark.

NOTE: To identify the connected load(s), press the information icon to the right of the device name. The connected load(s) will flash slowly.



- Tap **Save selected associations** to save the binding settings.

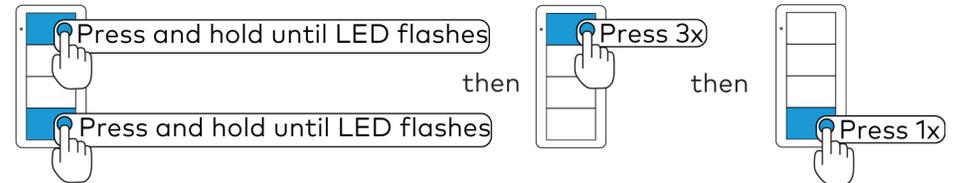


Local Binding Configuration

Local Binding configuration is used when all load controllers in the Zūm space are accessible (i.e., there are no J-box load controllers in the Zūm space).

To change the load controllers that are bound to the keypad:

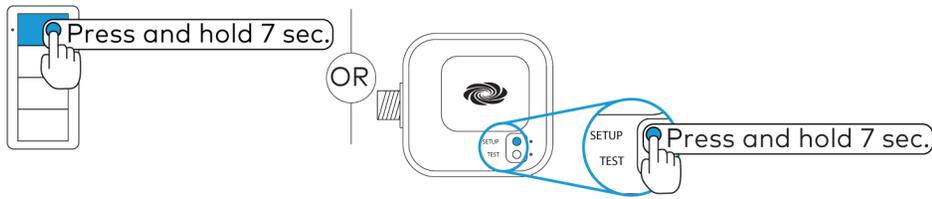
- Enter Binding mode.
 - Press and hold both the top and bottom buttons until the LED lights (about 5 seconds).
 - Press the top button three times.
 - Press the bottom button once. The LED on the keypad flashes three times, pauses, then repeats.
 - The LED flashes quickly to indicate that the load controller is bound.
 - The LED flashes slowly to indicate that the load controller is not bound.



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- At each load controller in the space, press and hold the top button until the LED lights (about 7 seconds) to change whether it is bound or not bound to the keypad.
 - The LED flashes quickly to indicate that the load controller is bound.
 - The LED flashes slowly to indicate that the load controller is not bound.

NOTE: If all load controllers in the Zūm space are assigned as not bound to the keypad, the keypad will restore its default functionality and all load controllers will become bound to the keypad.



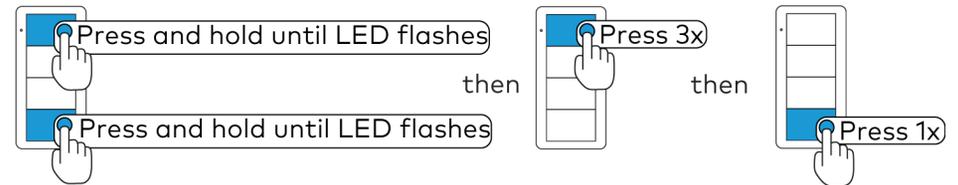
- Press the bottom button on the keypad 3 times to exit Binding mode.

Remote Binding Configuration

Remote Binding configuration is used when all load controllers in the Zūm space are not accessible (i.e., there are j-box load controllers).

To change the load controllers that are bound to the keypad.

- Enter Binding mode.
 - Press and hold both the top and bottom buttons until the LED lights (about 5 seconds).
 - Press the top button three times.
 - Press the bottom button once. The LED on the keypad flashes three times, pauses, then repeats.
 - The LED flashes quickly to indicate that the load controller is bound.
 - The LED flashes slowly to indicate that the load controller is not bound.

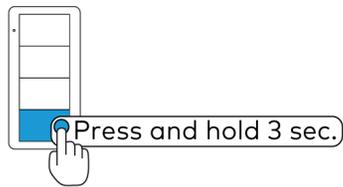


NOTE: Use the keypad that has been selected for controlling the load to perform the entire remote linking process.

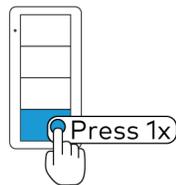
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2. Press and hold the bottom button of the keypad until a set of lights in the space starts to flash on and off (about 3 seconds). The flashing lights indicate the selected load controller. The LED on the keypad flashes to indicate that the load is bound or unbound.
 - The LED flashes quickly to indicate that the load controller is bound.
 - The LED flashes slowly to indicate that the load controller is not bound.

NOTE: The flashing rate of the lights does not indicate the link status.



3. Press the bottom button of the keypad repeatedly to cycle through all of the load controllers in the Zūm space until the desired load starts flashing.



4. Press the top button of the keypad to assign the load controller as bound or not bound to the keypad. The LED on the keypad flashes to indicate that the load is bound or unbound.
 - The LED flashes quickly to indicate that the load controller is bound.
 - The LED flashes slowly to indicate that the load controller is not bound.

NOTES:

- If all load controllers in the Zūm space are assigned as not bound to the keypad, the keypad will restore its default functionality and all load controllers will become bound to the keypad.
- The flashing lights indicate the selected load controller, not the binding status.



5. Repeat steps 3 and 4 until all load controllers are bound or unbound from the keypad.
6. Press the bottom button on the keypad 3 times to exit Binding mode.

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Program Keypad Buttons with the Zūm Configuration App

In the Zūm configuration app, keypad buttons can be programmed to recall a scene, toggle a load, raise and lower load levels, disable connected sensors, or perform actions in integrated AV systems.

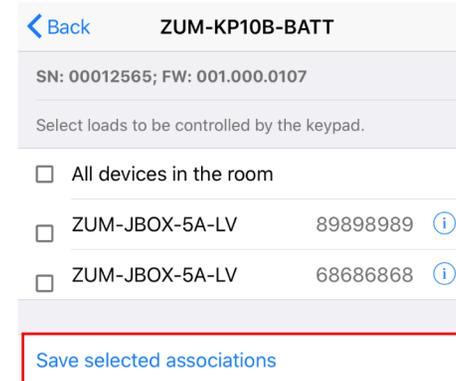
To program individual keypad buttons:

1. Open the Zūm configuration app and select the desired Zūm room.
2. Select the **Keypads** option from the **Configuration** menu. The **Keypads Grouping** menu opens. All keypads in the selected Zūm room are listed.



3. Double tap the top button on the keypad you wish to bind to a load. The keypad's menu appears in the Zūm configuration app. All devices in the Zūm room are listed.

4. De-select any devices that the keypad is bound to and tap **Save selected associations**. When de-selected, no check marks will appear in the check boxes to the left of the device names.



5. Tap **Button configuration**. The **Button configuration** menu opens.

NOTE: If any devices are bound to the keypad, **Button configuration** will not be selectable. If no devices are selected but an error message appears when **Button configuration** is pressed, return to the **Keypads Grouping** menu before reattempting to configure the keypad.

6. Select the desired button from the **Button configuration** menu. The button function list opens.
7. Select the desired function from the list.
8. Repeat steps 6 and 7 for each button that needs to be programmed.

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Change the Default Scene

The Zūm keypad buttons recall predefined scenes (light levels) that are stored in the load controllers. The default scenes are On (Scene 1) which sets the loads at 90%, Scene 2 which sets the loads at 50%, and Scene 3 which sets the loads at 10%. Load controllers can save up to 16 scenes.

There are several methods of changing the default scenes. Use the method that matches your needs.

- End-User Method: Change the light levels for Scene 2 or Scene 3 when all load controllers are easily accessible. On (Scene 1) cannot be changed. This method cannot be used on 2-button keypads.
- Manual Method: Change the light levels for On (Scene 1) in addition to Scene 2 or Scene 3 when all load controllers are easily accessible.
- Remote Method: Change the light levels for On (Scene 1), Scene 2, or Scene 3 when a load controller is not physically accessible.

NOTES:

- A dimmer lowered to 0% will turn the dimmer off when the scene is recalled.
- A load controller that is not bound to the keypad cannot be part of the scene.

End-User Method

End-User method to change the scene for Scene 2 or Scene 3:

1. Set all load controllers that are bound to the keypad to their desired light level.
2. Press and hold the **SCENE 2** or **SCENE 3** button until the LED lights (about 5 seconds) to save the light levels to the selected button.

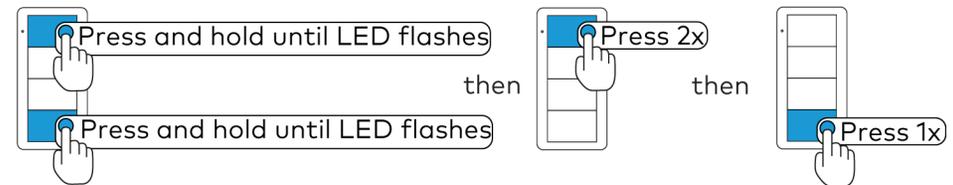
Manual Method

Manual method to change the scene for On (Scene 1):

NOTE: Scene 2 and Scene 3 can also be changed.

1. Enter Scene Setting mode using the keypad that will recall the scene.
 - a. Press and hold both the top and bottom buttons until the LED lights (about 5 seconds).
 - b. Press the top button two times.
 - c. Press the bottom button once. The LED on the keypad flashes its LED two times every two seconds to indicate that it is in Scene Setting mode. Load controllers that are bound to the keypad flash their LED rapidly.

NOTE: Scene Setting Mode exits after 5 minutes when initiated from an ac-powered keypad or 1 minute when initiated from a battery-powered keypad.



2. Adjust all light levels.
 - Using a dimmer, press and hold the top button to raise the light level or press and hold the bottom button to lower the light level.
 - Using a switch, press the top button to turn the lights on or press the bottom button to turn the lights off.
 - Using a J-box load controller, press and hold the **TEST** button on the J-box device to cycle-dim the light.
3. Using the keypad that initiated Scene Setting mode, press the **ON**, **SCENE 2**, or **SCENE 3** button to save the light levels to the selected scene button.

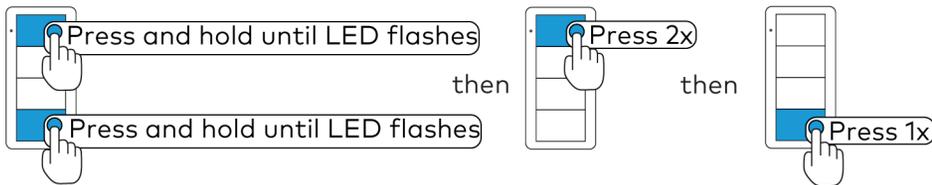
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4. Repeat steps 2 and 3 for each **SCENE** button.
5. Press the bottom button on the keypad 3 times to exit Scene Setting mode.

Remote Method

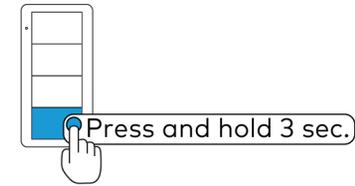
Remote Method is used to change the scene for On (Scene 1), Scene 2, or Scene 3.

1. Enter Scene Setting mode using the keypad that will recall the scene.
 - a. Press and hold both the top and bottom buttons until the LED lights (about 5 seconds).
 - b. Press the top button two times.
 - c. Press the bottom button once. The LED on the keypad flashes its LED two times every two seconds. Load controllers that are bound to the keypad flash their LED rapidly.

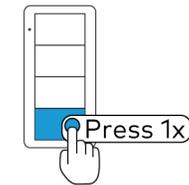


NOTE: Scene Setting mode exits after 5 minutes when initiated from an ac-powered keypad or 1 minute when initiated from a battery-powered keypad.

2. Press and hold the bottom button of the keypad until a set of lights in the space flashes on and off twice (about 3 seconds) to indicate that it is the selected load. The lights return to their previous level.



3. Press the bottom button of the keypad to cycle through all of the load controllers in the Zūm space until the desired load starts flashing.



4. Adjust the light levels by holding the top button on the keypad to raise the light level or holding the bottom button on the keypad to lower the light level.
5. Press the **ON**, **SCENE 2**, or **SCENE 3** button to save the scene.
6. Repeat steps 3 through 5 until all load controllers and all scenes are defined.
7. Press the bottom button on the keypad 3 times to exit Scene Setting mode.

Zūm™ Mesh Wireless J-Box Load Controllers

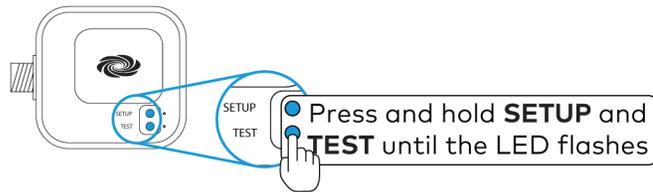


Factory Reset

A factory reset should be performed when the ZUMMESH-JBOX is removed from the network or to remove the configuration settings from the device. The ZUMMESH-JBOX must also be factory reset if it is being moved to a different system.

NOTE: New-in-box devices do not need to be factory reset before joining a system.

To factory reset the ZUMMESH-JBOX, press and hold the **SETUP** and **TEST** buttons until the **SETUP** LED lights (about 10 seconds), and then release both buttons. The **SETUP** LED and the connected load output turn on.



Factory Reset a Keypad, Dimmer, or Switch

To factory reset a keypad, dimmer, or switch, press and hold the top and bottom buttons until the LED lights (about 5 seconds), and then release both buttons. Then, press and hold the bottom button until the LED lights (about 10 seconds).

Factory Reset an Occupancy or Vacancy Sensor

To factory reset an occupancy or vacancy sensor, press and hold the **TEST** button until the LED flashes rapidly 3 times (about 10 seconds), then release the button.

Factory Reset a Daylight Sensor

To factory reset the daylight sensor, press and hold the button until the LED flashes rapidly 3 times (about 10 seconds), then release the button.



Visit the Product Page

Scan the QR code to visit the product page.

ZUMMESH-JBOX-5A-LV



www.crestron.com/model/6507910

ZUMMESH-JBOX-16A-LV



www.crestron.com/model/6507911

Zūm™ Mesh Wireless J-Box Load Controllers

ZUMMESH-JBOX-16A-LV-EM



www.crestron.com/model/6511350

ZUMMESH-JBOX-20A-SW



www.crestron.com/model/6507909

ZUMMESH-JBOX-20A-PLUG



www.crestron.com/model/6507912

ZUMMESH-JBOX-PSU



www.crestron.com/model/6508208

Additional Information

Original Instructions

The U.S. English version of this document is the original instructions. All other languages are a translation of the original instructions.

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