

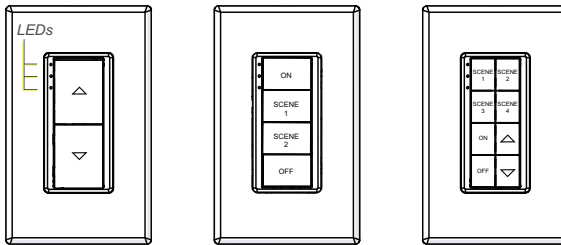
# Echoflex Installation Guide

## Multi-Scene Station

MSS

### Overview

The Multi-Scene Station (MSS) uses wireless technology to communicate with compatible Echoflex lighting controllers to create light intensity and color temperature scenes. The MSS is available in different button configurations, radio frequencies, and colors. Each station can be linked to one or more controllers to manage multiple circuits from one station. Each button is labeled for its function, and color LEDs indicate working status.



This document covers the installation process and basic setup for all MSS models. The product package includes the switch, faceplate, and battery.

### Prepare for Installation

To ensure optimal function, consider the installation environment and the following guidelines:

- For indoor use only. Operating temperature -10°C to 45°C (14°F to 113°F), 5%–92% relative humidity (non-condensing).
- High-density construction materials and large metal appliances or fixtures in the space may disrupt wireless transmissions.
- Install the device within range of linked receivers or controllers, 24 m (80 ft). Consider adding a repeater to extend reception range.
- CR2032 coin cell battery is provided with the MSS. Install the battery or activate it if factory-installed by removing the protective plastic tab in the battery housing. See [Battery Power on page 3](#).
- Avoid mounting transmitters and receivers on the same wall.

Supplies required to install:

- Two #6 screws and wall anchors (not provided)
- Quick strip spacers (not provided)



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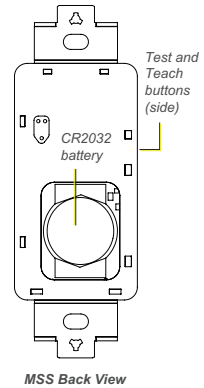
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### Installation

Use hand tools when installing. Over-torquing with a power tool can damage the station. Three different mounting options are available:

- Surface-mounted to a firm surface with screws and wall anchors (not provided).
- On a mud ring using the provided back support plate.
- Over a line voltage device box with a UL approved barrier (Echoflex part number: 8188K1001-5 or 8188K1002-5).

1. Insert a precision flatblade screwdriver into the slot at the bottom and pry carefully to remove the faceplate.
2. Mount the station according to the selected option.
3. Replace the faceplate by aligning it over the notch on the lower edge. Press above and below the buttons until it clicks into place.
4. Press the buttons on and off to test. The green LED blinks each time to indicate a transmitted message.



### Link to a Controller

The compatible target controller must be installed, powered, and within range of the MSS.



**Note:** *The linking process can be used both to link a device to a controller and to unlink a linked device from a controller.*

1. Press the **[Learn]** button on the controller to activate Link mode. If necessary, refer to the controller product documentation.
2. Press the **[Teach]** button on the side of the station once to send a link message.
3. Deactivate Link mode on the controller before attempting to link to any other controllers.
4. Test the operation by pressing the buttons on and off.



**Note:** *If the process fails, check the battery or run [Range Confirmation on the facing page](#) to confirm adequate signal strength.*

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### Battery Power

A CR2032 battery is included with the MSS. The battery may be factory installed or packed separately according to shipping regulations. Insert the battery if required or remove the protective plastic tab before installing the MSS.

To remove the battery:

1. Remove the faceplate, then unscrew the station from its mounting location and slide off the battery cover.
2. Insert a precision flatblade screwdriver under the battery clip and gently pry it free.
3. Press and hold any button for 10 seconds to discharge any stored energy and ensure a clean start for the microprocessor.
4. Insert the new battery into the clip with the positive side (+) up and press down. If successful, an LED chase sequence will run three times.

### Tests and Settings

Use the **[Test]** button and color LEDs to navigate the Tests and Settings menu. Remove the faceplate to access the **[Test]** button on the side. The LEDs display on the front of the MSS.

- **Reboot** (red LED)
- **Range Confirmation** (amber LED)

The menu times out after two minutes of inactivity.

### Reboot

1. Press and hold the **[Test]** button until all the LEDs blink.
2. Press and release the **[Test]** button to cycle through the menu of color LEDs and stop when the red LED blinks. Disregard any other LEDs that blink; they are for factory use only.
3. Press and hold the **[Test]** button for five seconds to select. The LEDs flash a sequence three times to confirm successful reboot.

### Range Confirmation

The Range Confirmation test quantifies the strength of the wireless signal to a linked controller that has range confirmation capability.



**Note:** *Only one controller can be linked to the MSS to run the test properly. Disable repeaters that are in range.*

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1. Press and hold the **[Test]** button until the green LED is displayed. Release the button to enter the menu and display the first item, the blinking green LED.

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2. Press and release the **[Test]** button to cycle through the menu of color LEDs and stop when the amber LED is blinking. Disregard any other LEDs that blink; they are for factory use only.
3. Press and hold the **[Test]** button until the LED stops blinking to initiate the Range Confirmation test.

After the MSS transmits and receives a Range Confirmation message, the signal strength status is displayed as an LED blink color.

LED Blink	Signal Strength
Green	-41 to -70 dBm (best)
Amber	-70 to -80 dBm (good)
Red	-80 to -95 dBm (poor, move closer)
No LED	No linked controllers detected

The test repeats every five seconds and runs for 50 seconds. To exit before the time-out, press and hold the **[Test]** button.

### Compliance

For complete regulatory compliance information, see the Multi-Scene Station datasheet at [echoflexsolutions.com](http://echoflexsolutions.com).

#### FCC Compliance

Echoflex Multi-Scene Station

(For any FCC matters):

Echoflex Solutions, Inc.

3031 Pleasant View Road

Middleton, WI 53562

+1 (608) 831-4116

[echoflexsolutions.com](http://echoflexsolutions.com)

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 undesired operation.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. 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. Any modifications or changes to this product not expressly approved by Electronic Theatre Controls, Inc. could void the user's authority to operate the product. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at their own expense.

Contains FCC ID: SZV-TCM515U

#### ISED Compliance

This device contains a license-exempt transmitter/receiver that complies with Innovation, Science, and Economic Development Canada's license-exempt RSSs. Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

Contains IC ID: 5713A-TCM515U

#### Conformité ISDE

Cet appareil contient un émetteur/récepteur conforme aux CNR d'Innovation, Sciences et Développement économique Canada (ISDE) applicables aux appareils radio exempt de licence. Son fonctionnement est soumis à deux conditions suivantes:

1. L'appareil ne doit pas produire d'interférences.
2. L'utilisateur de l'appareil doit accepter toute interférence, même si l'interférence est susceptible d'en compromettre le fonctionnement.

Contient ID IC: 5713A-TCM515U