LED **Rocker Switch Remote** Control

Model: SEI-SETXLED

User Guide

Important

- Please read this User Guide before installation and use.

- **CAUTION:** The power input voltage range for your LED Rocker Switch Remote Control (referred to as Switch) is 9V to 16V. It is designed to work with a +12V DC battery power supply. If your vehicle battery power output is not 12V (e.g., 24V, 36V, or 48V), you will need a voltage converter with 12V output (e.g., a 48V-to-12V converter). Connecting the Switch directly to higher voltages will cause damage to your device and **VOID THE PRODUCT WARRANTY**.

- The Switch has a built-in RF remote transmitter that will operate the LED lights on a wirelessly paired, LEDCast-enabled SoundExtreme product. This Switch only controls LED light functions, not audio. It is optimized for the ExtremeController (a 4-Zone LED Controller by SoundExtreme). To control the audio functions as well as basic LED controls of SoundExtreme soundbars, speakers, and radios, please purchase the Audio Rocker Switch Remote Control. Visit www.soundextreme.us for more details.

- The Switch fits in a standard Carling rocker switch opening, which is commonly used in the dashboard of many off-road vehicles, boats, and golf cars. The Switch panel is waterproof; however, the housing behind the panel is only splash proof.

- **CAUTION:** In order to make sure there is no potential damage to your audio system, unplug or power off your audio equipment until after all connections are completed.

Features

The Switch is an all-in-one device providing power and wireless LED lighting controls to a paired SoundExtreme product.

Remote Turn-On Output

In addition to opperating as a power switch, the Switch also has a +12V Remote Turn-On signal output, which can be connected to an ExtremeController's Remote Turn-On Input. That ExtremeController can then be automatically turned on or off when you turn the Switch on or off.

RF Remote Transmitter

The Switch has a built-in RF 433MHz remote transmitter, which is used to pair with and control an ExtremeController or other LEDCast-enabled SoundExtreme product. The first time you use the Switch, you will need to pair it with a product. Once they are paired, your product will remember your Switch. Next time you power on your product, your Switch's remote functions will be ready to use.

Lighting Control Concepts

Below are some terms and definitions to help you better understand the Lighting Control Concepts associated with the ExtremeController and other LEDCast-enabled SoundExtreme products. Please refer to the ExtremeController User Guide for more details.

Zone

A Zone corresponds to all the LED lights that are connected directly to one physical connection on an LED Lighting Controller output. When you change a Zone status (on / off, Mode, etc.), the LEDs connected to that Zone will change accordingly. Depending on the product the Switch is paired with, the SoundExtreme product may have 1 to 4 LED lighting Zones.
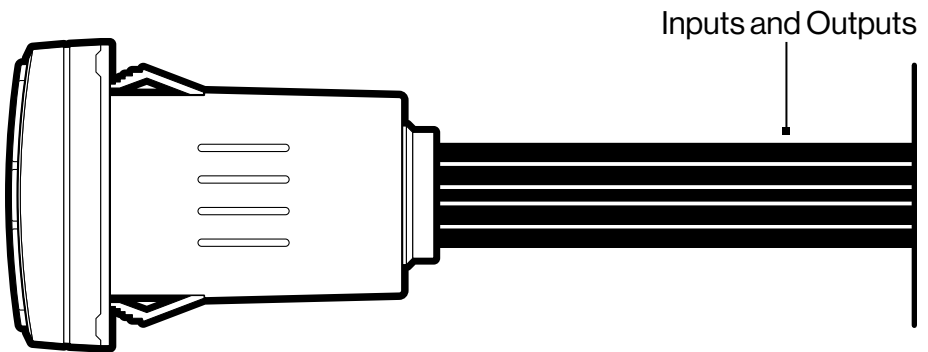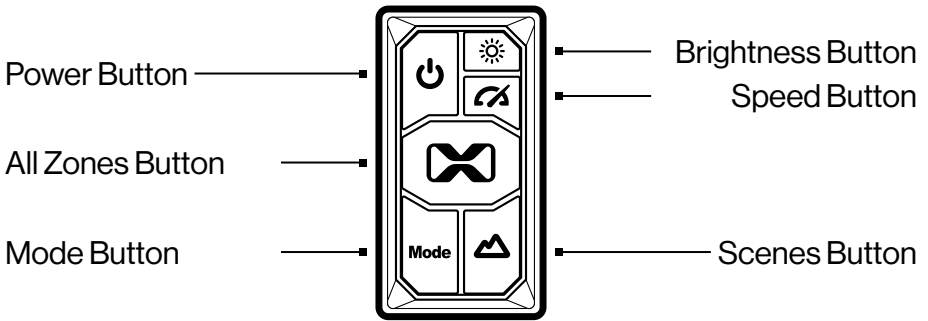
Introduction

Mode

There are 3 LED Mode categories, totaling in 44 Modes supported by the Switch's RF remote control:

· 8 Color Mode

· 20 Party Mode

· 16 Music Mode

Scene

A Scene is programed via the SoundExtreme Smartphone App. You can customize each Zone into a Scene (a preset). Setting the Scenes on the app allows a 1-button press to bring up your desired custom settings for all of the LED products connected to the LED Lighting Controller. LEDCast-enabled SoundExtreme products have 5 Scene settings.

Switch Layout

Power Button

All Zones Button

Mode Button

Brightness Button
Speed Button

Scenes Button

Inputs and Outputs

Power Inputs:
+12V Wire (Red) / GND Wire (Black)

Remote Turn-On Output
Wire (Dark Blue)

Accessory Outputs:
+12V Wire (Red) / GND Wire (Black)

Switch Overview

Connectors

Input:

· Power Input: +12V, GND – Connect to your vehicle's +12V battery. Only connect to a +12V DC power supply.

Outputs:

· Remote Turn-On Output: +12V signal output when the Switch is on.

· Power Outputs: +12V, GND – Connect to a SoundExtreme product's power input (maximum current not exceeding 20A, 12V).

Button Functions

Power Button ⏻

· **Press and hold** for 3 seconds to turn the Switch on or off.

· When the Switch is on, short-press to turn the button backlights on or off.

· When the Switch is on, double-click to enable RF Remote Pairing with a SoundExtreme product.

Brightness Button ☀

· Short-press to cycle through 5 levels of LED brightness for all of the Zones.

Speed Button 🏁

· Short-press to cycle through 5 levels of LED lighting speed for all of the Zones, while in a Party Mode.

All Zones Button ✖

· Short-press to turn all of the Zones on or off.

Mode Button

· Short-press to cycle through all of the LED lighting Modes for all of the Zones.

Scenes Button ⏶

· Short-press to cycle through 5 predefined LED lighting Scenes.

Installation and Wiring

Installing Your Switch Onto Your Vehicle

The Switch is designed to snap into a standard Carling style rocker switch opening.

- · If you already have that style of an opening on your vehicle, you can simply snap the Switch into place.

- · If your vehicle doesn't already have that style of an opening, you will need to cut a rectangular hole into your vehicle. Before you cut, please refer to the dimensions under the Specifications section to determine the cutout size.

Connecting to an External Speaker

If you want to provide power to and control an external ExtremeController's or other LEDCast-enabled SoundExtreme product's power on and off feature, you will need to connect it to the Switch's Accessory Power Outputs and Remote Turn-On Ouput.

Accessory Power Outputs

Switch's Accessory   SoundExtreme Product
Power Outputs   Power Inputs
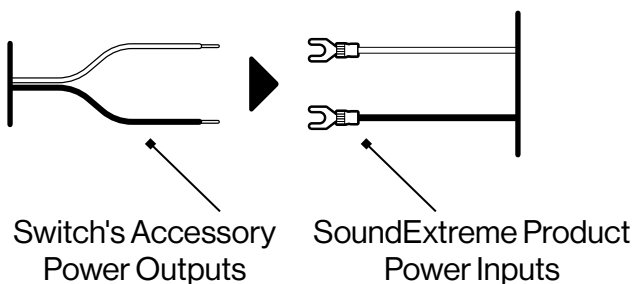
Connect the Switch's Accessory Power Outputs (+12V and GND) to the power inputs on the ExtremeController you want to control.

- · Make sure that the Switch's **RED** +12V Wire is connected to the ExtremeController's **RED** Wire and the Switch's **BLACK** GND Wire is connected to the ExtremeController's **BLACK** Wire.

Remote Turn-On Output

Switch's Remote
Turn-On Output Wire

SoundExtreme Product
Remote Turn-On Input Wire
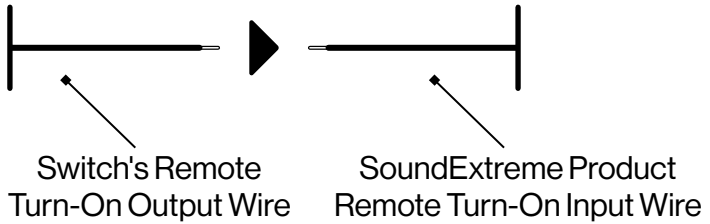
Besides the 12V power supply, the Switch has an optional Remote Turn-On Signal Output to turn on and power off the ExtremeController or LEDCast-enabled SoundExtreme product you want to control. The output voltage is 12V.

If your SoundExreme product has a Remote Turn-On Input, follow the steps below:

1. Connect the Switch's (Dark Blue) Remote Turn-On Output Wire to the ExtremeController's Remote Turn-On Input. You may need an extension cable (supplied with the ExtremeController).

2. Once the connections are completed, the ExtremeController will automatically turn on or off when the Switch is turned on or off.

# Installation and Wiring

Connecting to 12VDC Power Supply

When you install the Switch to a battery or a voltage regulator on a golf cart, a boat, a quad bike, a UTV, or another vehicle, you need to make sure that your vehicle battery or battery pack terminal voltage is 12VDC. If the battery terminal voltage is not 12V, you will need a DC–DC converter with output 12V. Connecting the Switch to a non-12VDC power source will lead to a malfunction or damage to the Switch.

Recommendation: If you are not familiar with all of the vehicle's battery or ignition switch connections, consult your vehicle's manual or a technician. Incorrect connections to your vehicle's battery or ignition signal terminal may cause damage to your speaker and your vehicle.

Connect the +12V and GND wires to the 12VDC power supply.

·   Make sure that the **RED** Wire is connected to +12V battery's positive (+) terminal and the **BLACK** Wire is connected to battery's negative (-) terminal.

WARNING! Only connect to a 12V power supply. Do **NOT** connect to a 24V, 36V, or 48V power supply. Connecting the Switch directly to these higher voltages will cause damage to the Switch and **VOID THE PRODUCT WARRANTY**.

Black Wire   Red Wire
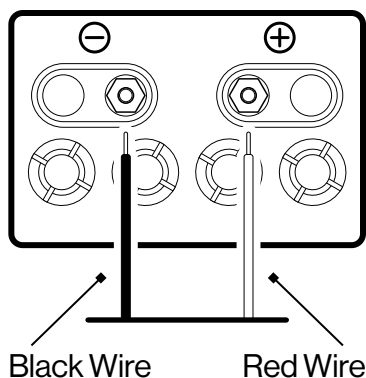
First Time RF Remote Pairing
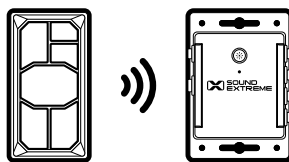
The first time you use the Switch, you will need to pair the Switch with an ExtremeController or other LEDCast-enabled SoundExtreme product. This process is only needed for the first time you use the Switch with a product.

Please follow the steps below for first-time pairing:

1. **Press and hold** the Power Button ⏻ to turn the Switch on.

2. If you are pairing with an ExtremeController, the ExtremeController will automatically enable remote pairing when turned on. If you are pairing with another SoundExtreme product, you may need to enable RF remote pairing on your SoundExtreme product.

   Example: On a SoundExtreme Elite Soundbar, **press and hold** both the ❮ and ❯ Buttons on the Soundbar at the same time for 3 seconds. The Soundbar's LED Party Lights will flash Green, indicating it is ready to pair with a remote.
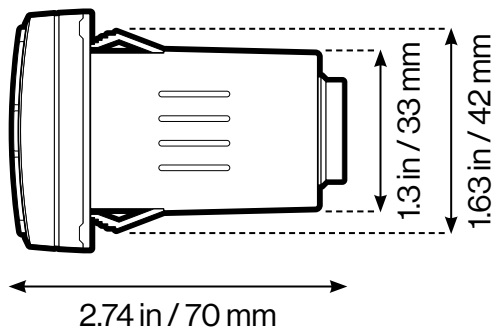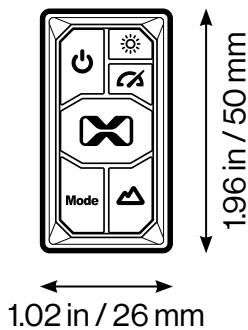
3. On your Switch, double-click the Power Button ⏻. Your Switch will start pairing.

4. Once paired, the LED Party Lights connected to the ExtremeController will rapidly flash Green 3 times, indicating a successful pairing.

   Note: The paired product may produce a different prompt to indicate a successful pairing. Please refer to the product's User Guide.

5. Now you can press a button on the Switch, such as the All Zones Button, to check if your ExtremeController responds.

Specifications

Dimensions

0.82 in / 21 mm

1.89 in / 48 mm

2.1 in / 53 mm

0.64 in / 16 mm

1.96 in / 50 mm

1.02 in / 26 mm

1.3 in / 33 mm

1.63 in / 42 mm

2.74 in / 70 mm
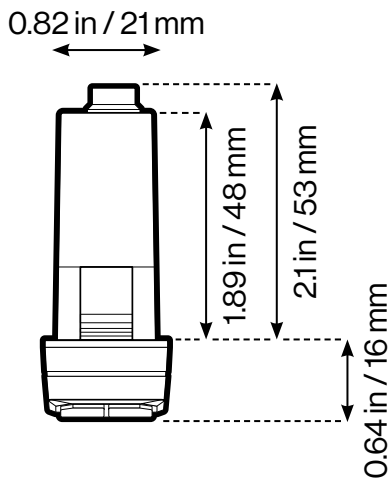
Unit Weight
4.59 oz (130 g)

Power Input
9~16V, 20A

Power Output
9~16V, 20A

Remote Turn-On Output
12V, 1.2mA

Storage Temperature
-40°F to 122°F / -40°C to 50°C

Operating Temperature
23°F to 95°F / -5°C to 35°C

FCC STATEMENT:

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.

WARNING: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: FCC's RF Exposure guidelines, this equipment should be installed and operated with minimum distance between 20cm the radiator to your body.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. 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. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: reorient or relocate the receiving antenna, increase the separation between the equipment and receiver, connect the equipment into an outlet on a circuit different from that to which the receiver is connected, consult the dealer or an experienced radio/TV technician for help.

RF WARNING STATEMENT:

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

IC STATEMENT:

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

1.) This device may not cause interference, and

2.) This device must accept any interference, including interference that may cause undesired operation of the device.

PRODUCT USE AND PROTECTION:
Read and follow all instructions. Use only as intended.

The SoundExtreme unit is intended to be used indoors or outdoors and in land or water environments. The unit has been tested to IP66 waterproofing standards, which means the unit can be exposed to dust and water, but should **NOT** be submerged underwater.

To prevent fire or shock, do **NOT** attempt to power this unit if it is wet or you suspect water has entered the unit. In this situation, please return the unit to SoundExtreme for a free assessment. If we have found that the unit has carried water, we will repair or replace the unit free of charge.

SAFETY ADVISORY & WARNING:
Read and follow all instructions. Use only as intended.

CAUTION: Do **NOT** open to repair. A qualified technician must carry out repair work.

ATTENTION: Do **NOT** connect to a SoundExtreme product with LEDCast technology while the unit is wet. Make sure all connections are dry **BEFORE** connecting to a power source. Failure to do so may result in electrical damage to the unit and may void the warranty.

⚠ **WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov

ATTENTION: Do **NOT** dispose of in a landfill. Contact SoundExtreme at www.gracesupport.com or a certified recycling agent to dispose of the unit.

SAFETY:

This product has a limited life span of use and should be replaced when it shows obvious signs of wear.

Do not modify or remove any original component parts of the speaker. Doing so could cause damage to the unit, allowing water to ingress. A unit with water ingress should not be charged due to potential risk of fire or shock.

Please exercise care and good judgment when using your SoundExtreme unit.

You should always

1.) Return the unit to SoundExtreme if you suspect water ingress into the unit or if the unit has experienced a severe impact that may have affected the integrity of the unit to take on water.

Important Legal Information

You should never

1.) Never power your SoundExtreme unit if you suspect water has entered the device. Powering a device with water inside could be potentially hazardous and cause fire or a spark.

2.) Never use your SoundExtreme unit if you have dropped it or thrown it against a hard surface which may have destroyed the integrity of the housing. In the event of a severe impact to your unit, please return the unit to SoundExtreme to review for potential damage.

3.) Never attempt to fix, repair your SoundExtreme unit . Please send it back to SoundExtreme for any assessments and repairs.

CARE, MAINTENANCE & PRECAUTIONS:

1.) Do **NOT** apply excessive force to any surfaces of the unit.

2.) Do **NOT** use or store the unit in places with high temperature.

3.) **AVOID** prolonged exposure to ultraviolet radiation (UV sunlight) and strong magnetic fields.

LIMITED MANUFACTURER'S WARRANTY:

The Switch is covered by a 1-year limited warranty that covers defects in workmanship and / or materials for a period of 1 year from original purchase date. This warranty does not apply to any products which have been abused, neglected, modified or used for a purpose other than the one for which they were manufactured. Please refer to the above care and maintenance instructions for suggested care details. The warranty is valid only for the original owner who purchases the unit from an authorized dealer. Transfers do not qualify for warranty protection. SoundExtreme reserves the right to replace any out-of-stock or discontinued product with a comparable product. Discontinued products may not be available for warranty replacement. Any contents are **NOT** covered by the limited manufacturer's warranty. Warranty terms may be revised without notification at the discretion of the manufacturer. Please visit www.soundextreme.us for additional product & warranty information.
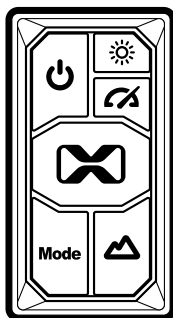
FC (€ ⒷⒸ RoHS NOM ⌧ ♻

LED Rocker Switch Remote Control by SoundExtreme Inc., Houston, Texas.
Designed in Texas. Made in China.

EXTREME INNOVATION
for YOUR LIFESTYLE

What's in the Box

LED Rocker Switch
Remote Control

User Guide

SOUNDEXTREME
BY ECOXGEAR