

EcoCast™ Receiver

Model: SEI-SECSTRX

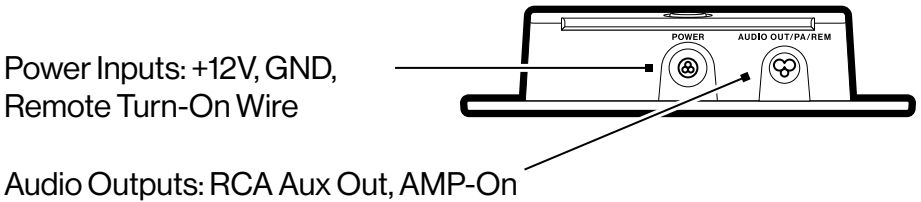
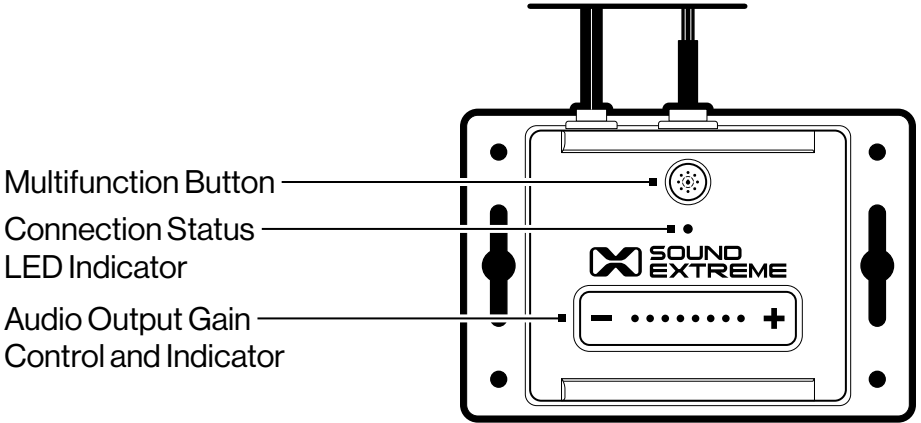


User Guide

Important

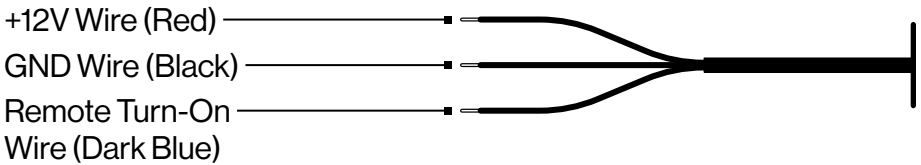
- Please read this User Guide before installation and use.
- **CAUTION:** The voltage input power for this device is +12V DC.
- The voltage for the power input is +12VDC. You need to connect to a 12VDC power supply. If your vehicle battery power is not 12V (e.g., 24V, 36V, or 48V), you will need a DC-DC voltage converter with 12V output (e.g. a 48V-to-12V converter). Connecting the EcoCast Receiver directly to higher voltages will cause damage to the receiver and **VOID THE PRODUCT WARRANTY**.
- The EcoCast Receiver has a Remote Turn-On Input feature; this is to ensure that the receiver is completely powered off (no battery consumption) when your vehicle is not in use. When the input has a signal between 12V to 56V, the receiver will turn on. When there is no input voltage, the receiver will turn off. In general, this Remote Turn-On signal comes from the vehicle ignition switch.
- **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.

EcoCast Receiver Layout



Buttons & Connectors

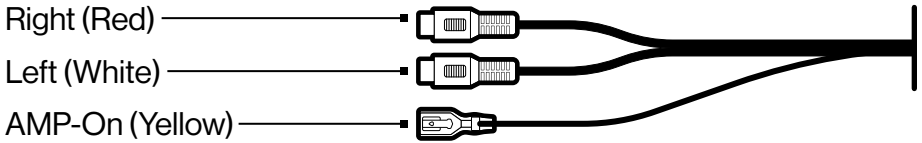
Inputs:



- Power +12V, GND
- Remote Turn-On (input signal: 12 - 56V)

EcoCast Receiver Overview


Outputs:





- AMP-On – With this output, you can turn on the audio power amplifier the EcoCast Receiver is connected to.
- RCA Aux Out – This is the audio output. The Red and White RCA Jacks are the Right and Left audio channels, respectively. Connect the device to an audio power amplifier with the included RCA to RCA Cables.

Connection Status LED Indicator: The LED indicates 2 possible Connection Statuses.

1. Speaker Mode: The EcoCast Receiver is in Bluetooth Mode.
 - Rapid Green Flashing: Bluetooth Pairing – Pairing Ready
 - Solid Green: Bluetooth Pairing – Connection Successful
2. EcoCast Receiving Mode:
 - Slow Green Flashing: EcoCast Pairing – Pairing Ready
 - Solid Green: EcoCast Receiving – Paired with EcoCast Transmitting Speaker





Multifunction Button: The  Button has 3 functions.

1. Short-Press: Re-enable Pairing.
 - In Speaker (Bluetooth) Mode, re-enables pairing with a smartphone.
 - In EcoCast Receiving Mode, re-enables EcoCast pairing to an EcoCast-enabled soundbar or SoundExtreme audio product in EcoCast Transmitting Mode.



2. Press and Hold for 3 seconds: Mode Switch between Speaker Mode and EcoCast Receiving Mode.
 - When the receiver enters into Speaker (Bluetooth) Mode, the connected speaker will announce “Speaker Mode,” then, “Ready to Connect.” The EcoCast Receiver is now ready for a smartphone to pair and connect to.
 - When the receiver enters into EcoCast Receiving Mode, the connected speaker will announce “EcoCast Receiving,” and the receiver will search for an EcoCast Transmitting source to pair to. Once the pairing and connection is completed, the speaker will announce, “Connection successful.”
3. Press & Hold the  and  Buttons at the same time for 5 seconds: clears Bluetooth pairing records and sets the receiver to EcoCast Receiving Mode.

Audio Output Gain Controls and Indicators:

1. Control Buttons:

- Press the  or  Buttons to increase or decrease the audio output gain.
- Press and hold  or  to increase the audio volume in EcoCast Receiving Mode.
- Refer to **Audio Volume and Output Gain** for more details.

2. LED Indicators:

- Each of the 8 LED Indicators has a corresponding gain value (from left to right): -8dB, -5dB, -3dB, -1dB, 1dB, 3dB, 5dB, 8dB
- Short-press  or  to change the audio output gain. The 8 LEDs will light up accordingly
- Please note that the 8 LEDs do **NOT** show the audio volume when the receiver is in the EcoCast Receiving Mode.

Installation and Wiring

Connecting to 12VDC Power Supply

The EcoCast Receiver does not have an internal battery. It must be connected to an external 12VDC power supply to function. When you install the EcoCast Receiver 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 EcoCast Receiver to a non-12VDC power source will lead to a malfunction or damage to the receiver.

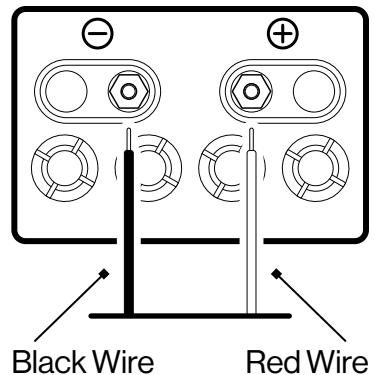
Note: Besides the power supply, the EcoCast Receiver relies on the Remote Turn-On Signal Input to turn on and off. Refer to **Connecting the Remote Turn-On Input Wire to a Switch** for more details.

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 receiver directly to these higher voltages will cause damage to the receiver and **VOID THE PRODUCT WARRANTY.**



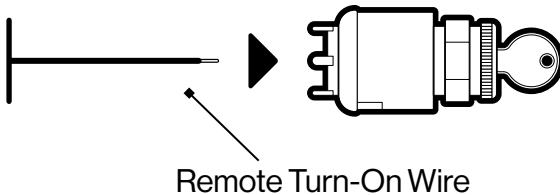
Connecting the Remote Turn-On Input Wire to a Switch

Besides the 12V power supply, the EcoCast Receiver relies on the Remote Turn-On Signal Input to turn on and power off. The input voltage range to turn on is 12V to 56V. When the input voltage is 0, it will power off the receiver.

You will need to connect the (Dark Blue) Remote Turn-On Wire to the vehicle ignition switch with an extension cable (not included). If you are not able to connect it to your vehicle ignition switch, connect this input to a rocker switch (not included), then connect the rocker switch to a 12V to 56V power supply on your vehicle or to a switch accessory panel.

Connecting to a Switch

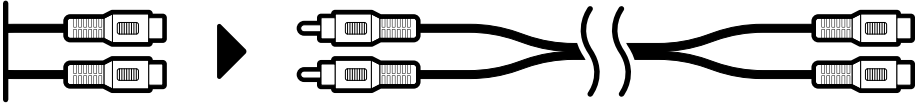
To connect the EcoCast Receiver to your vehicle's ignition switch, a rocker switch, or the vehicles switched power distribution panel, follow the steps below:



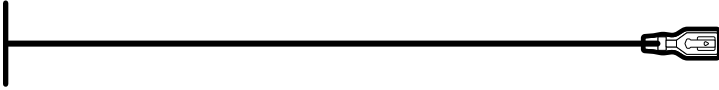
1. Connect the (Dark Blue) Remote Turn-On Wire to the Accessories terminal of your switch with an extension cable.
2. Once the connections are completed, the EcoCast Receiver will turn on or off when the switch is turned on or off.

Installation and Wiring

Connecting Your Audio Output



1. Connect the audio output to the audio power amplifier inputs with the included RCA to RCA Cables.



2. Connect the AMP-On Wire (Yellow) to the Remote-Control input on the audio power amplifier.

Installing Your EcoCast Receiver Onto Your Vehicle

The EcoCast Receiver has two options for mounting it to your vehicle's body:

1. Fasteners (hook and loop self-fastener): Attached fasteners on the back of the unit for easy installation.
2. Mounting slots: Screw the unit to your vehicle (screws not included). Recommended when riding in rough conditions.

Audio Functions

Audio Volume and Output Gain

There are two Sound-Level Adjustments on the EcoCast Receiver.

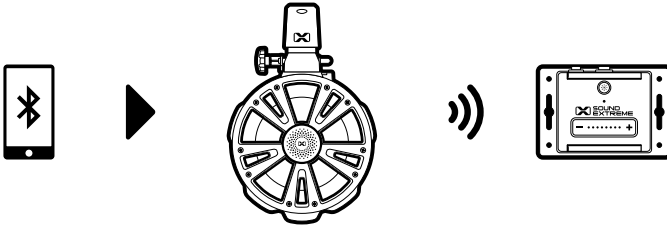
1. Output Gain Adjustments



- The receiver outputs preamplifier audio signals, which normally feeds into an external audio power amplifier input. The output gain level can be adjusted from -8dB to +8dB by pressing the **+** or **-** Buttons. This adjustment is usually made in the initial amplifier setup process.

2. Audio Volume Adjustments

- When the receiver is in Speaker (Bluetooth) Mode, there is no audio volume on the receiver. Change the audio play volume either on your phone or music player, or on the audio power amplifier.
- When the receiver is in EcoCast Receiving Mode, the device will play at the same volume level (volume sync) as received in the audio streams from the EcoCast Transmitting Speaker.
- Press & Hold **+** or **-** for 3 seconds on the receiver to adjust the receiver audio output volume only. However, as soon as the EcoCast Transmitting speaker has a playback change (for instance a track change or a volume change), the receiver will volume sync with the Transmitting speaker.


First Time Pairing in EcoCast Mode



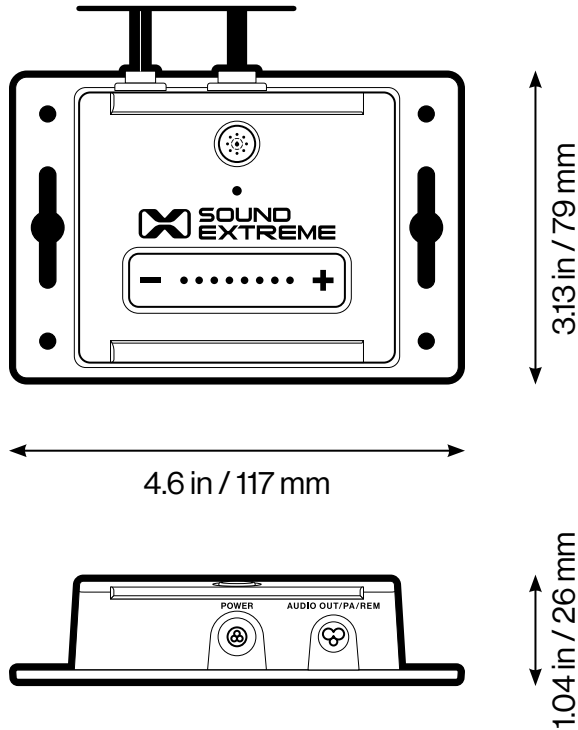
1. The EcoCast Receiver is set to EcoCast Receiving Mode as the default setting. After powering on, the device will enter EcoCast Receiving Mode. The receiver will announce, "EcoCast Receiving," and the Connection Status LED Indicator will flash Green.
 - If you do not hear this voice prompt, you can reset the receiver to EcoCast Receiving Mode by pressing & holding the  and  Buttons at the same time for 3 seconds.
2. After holding for 3 seconds, the receiver will search for an EcoCast Transmitting speaker to pair with.
3. Once paired and connected, the receiver will announce, "Connection Successful," and the Connection Status LED Indicator will shine solid Green. The receiver will start to play the audio streams received from the EcoCast Transmitting speaker.

Audio Functions

First Time Pairing in Speaker (Bluetooth) Mode

1. If the EcoCast Receiver is in Speaker (Bluetooth) Mode, after powering on, the device will announce, "Speaker Mode. Ready to connect," and the Connection Status LED Indicator will flash Green.
 - If you do not hear this voice prompt, you can switch the Mode to Speaker Mode by pressing & holding the  Button for 3 seconds.
2. After holding for 3 seconds, the receiver will search for a phone to pair with.
3. Refer to your phone's Bluetooth settings. Search for and select **'SoundEx-BTRX'** to pair and connect.
4. Once paired and connected to your phone, the receiver will announce, "Your phone is connected," and the Connection Status LED Indicator will shine solid Green.

Dimensions



Unit Weight

4.23 oz (120 g)

Power Input

12V, 1A

Remote Turn-on Input

12V – 56V

AMP-On Output

12V±1V

Bluetooth Frequency Band

2.402~2.480GHz ISM Spectrum

Bluetooth Compliance

Bluetooth® 5.1

EcoCast Range

30 ft / 9.1m between Casting speaker and EcoCast Receiver

Storage Temperature

-40°F to 122°F / -40°C to 50°C

Operating Temperature

23°F to 95°F / -5°C to 35°C

Important Legal Information

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.

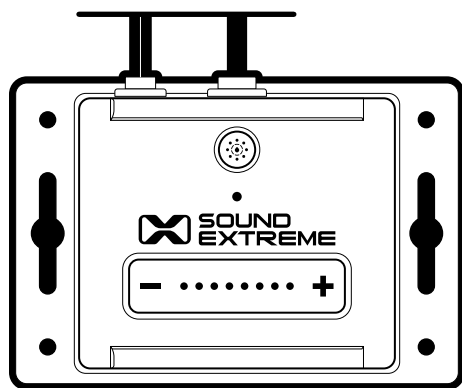
LIMITED MANUFACTURER'S WARRANTY:

The EcoCast Receiver 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.

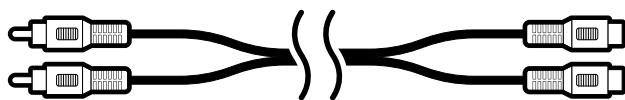


EcoCast Receiver by SoundExtreme Inc., Houston, Texas.
Designed in Texas. Made in China.

What's in the Box



EcoCast Receiver



RCA-RCA Cables – 5.5 ft long