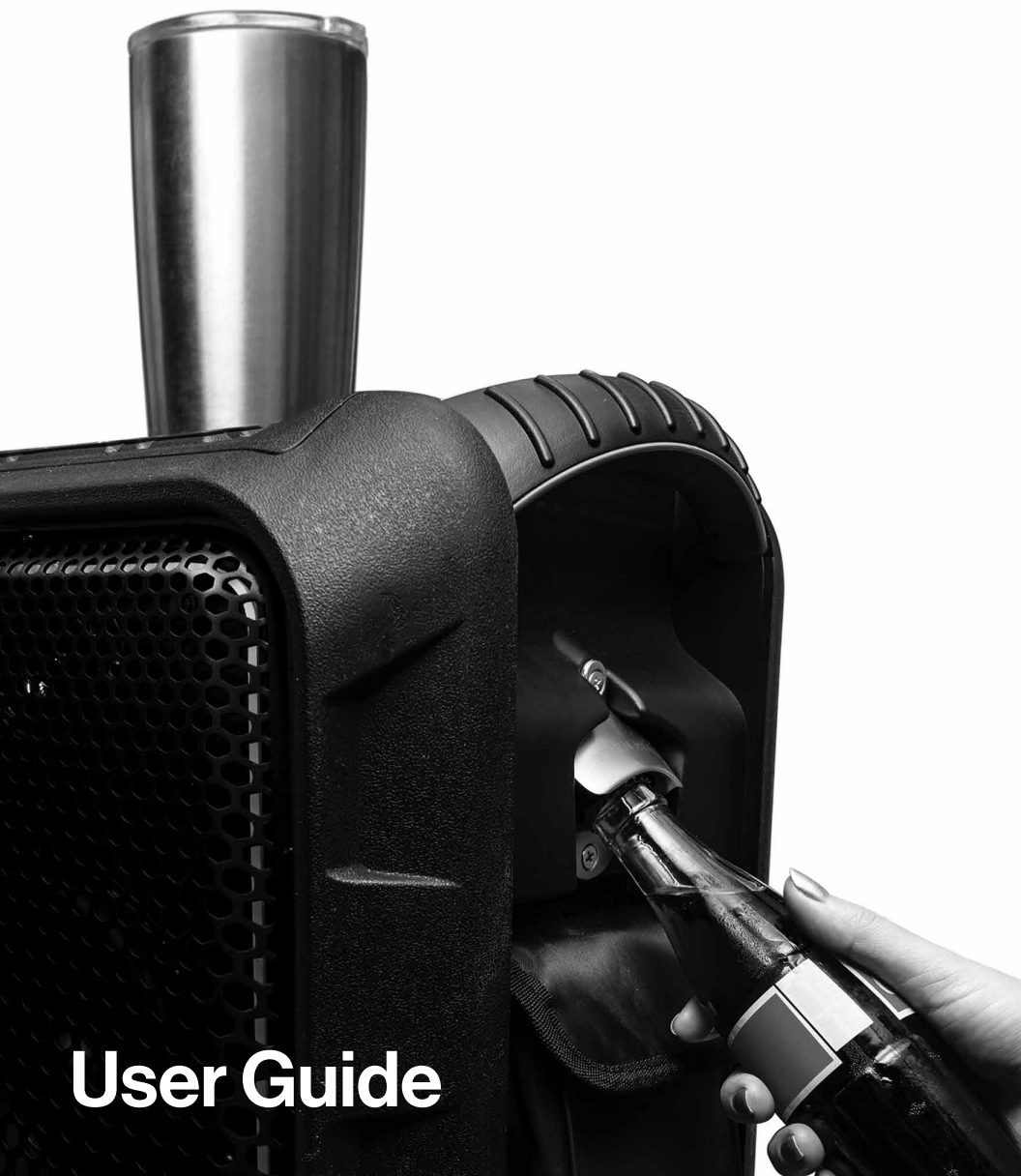




Boulder Ultra

Waterproof Outdoor Speaker

Model: GDI-EXBULT510



User Guide

Important

IMPORTANT SAFETY INFORMATION

WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK) AS THERE ARE NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of non-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance instructions in the literature accompanying the appliance.

IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions – All the safety and operating instructions should be read before this product is operated.
2. Keep these instructions – The safety and operating instructions should be retained for future reference.
3. Heed all warnings – All warnings on the appliance and in the operating instructions should be adhered to.
4. Follow all instructions – All operating and use instructions should be followed.
5. This apparatus can be used in outdoor conditions after disconnected the AC Mains supply and closing the waterproof cap for the AC inlet. It must not be used in outdoor conditions when charging. Do not use this apparatus near water – The appliance should not be used near water or moisture – for example, in a wet basement or near a swimming pool, and the like'
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Only use attachments/accessories specified by the manufacturer.



10. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart or rack is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

11. Do not install this equipment in a confined or building-in space such as a book case or similar unit, and remain a well ventilation conditions. The ventilation should not be impeded by covering the ventilation openings with items such as newspaper, tablecloths, curtains etc.
12. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. **CAUTION:** Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.
15. The battery (battery or batteries of battery pack) shall not be exposed to excessive heat such as sunshine, fire or the like.
16. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
17. Keep a minimum distance of 5cm around all edges of the display for sufficient ventilation.
18. The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, table-cloths, curtains, etc.
19. No naked flame sources, such as lighted candles, should be placed on the apparatus.
20. Operating Environment: temperature: 5 degree-35 degree, Humidity: 10% to 90% non-condensing, altitude: 0-2000m. Safety way to remove the battery or the battery from the equipment: Remove the old battery or battery pack, follow the steps in reverse order than the assembly. To prevent contamination of the environment and bring on possible threat to human and animal health, the old battery or the battery put it in the appropriate container at designated collection points. Do not dispose of batteries or battery together with other waste. It is recommended that you use local, free reimbursement systems batteries and accumulators. The battery shall not be exposed to excessive heat such as sunshine, fire or the like. Do not remove battery incorporated with product for your safety. If you need to replace the battery, take it to the nearest authorized Boulder Ultra service point or dealer for assistance.

Safety way to remove the battery or the battery from the equipment: Remove the old battery or battery pack, follow the steps in reverse order than the assembly. To prevent contamination of the environment and bring on possible threat to human and animal health, the old battery or the battery put it in the appropriate container at designated collection points. Do not dispose of batteries or battery together with other waste. It is recommended that you use local, free reimbursement systems batteries and accumulators. The battery shall not be exposed to excessive heat such as sunshine, fire or the like. Do not remove battery incorporated with product for your safety. If you need to replace the battery, take it to the nearest authorized Boulder Ultra service point or dealer for assistance.



Correct Disposal of this product. This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling. WEEE directive



Rating Label

The product rating label is located behind the retractable handle.

Introduction

Features

The Boulder Ultra includes the following features.

Rugged Speaker with Big Sound

- 100% waterproof and dustproof. Meets IP67 international waterproof and dustproof standards.
- 100 Watts dynamic power amplifier for massive sound.
- 3-way speaker system with 8 inch full-range + 8 inch passive + 3 inch tweeter.
- Play on standard AC wall power for continuous play, or up to 50+ hours on the rechargeable battery.

Multi-Audio Source Inputs and Output

- Bluetooth streaming.
 - Bluetooth 5.1 long range and reliable connection to your phone.
 - Dual simultaneous connections – switch playback between two phones.
 - Built-in speakerphone function.
 - EcoTalk Button for easy Voice Assistant (Siri and Hey Google) activation.
- AM / FM radio.
- Aux-In.
- External microphone jack for PA or Karaoke use (mic sold separately).

Built-in EcoCast Wireless Audio

- Wirelessly stream your radio's Bluetooth music, AM / FM radio and Aux-In audio to EcoCast-enabled speakers. Supports up to 100 wireless connections between any mix of EcoCast-enabled

ECOXGEAR and SoundExtreme soundbars, subwoofers, radios, and party speakers.

- Play audio streams wirelessly received from an EcoCast Transmitting speaker. No wires!

Integrated Addressable RGB LED Lights

- Addressable RGB LED strips behind the front grill and built-in LEDCast LED Lighting Controller.

SoundExtreme Smartphone App

- With the free SoundExtreme Smartphone App customize your LED's colors, speed, brightness, music sync, and LED chasing. Add additional 4-Zone LED controllers (sold separately) and other LEDCast products to expand your light show. Create custom scenes to change all Zones at once with your favorite LED light show. Control them all from one app!

5V USB-C Charge Out

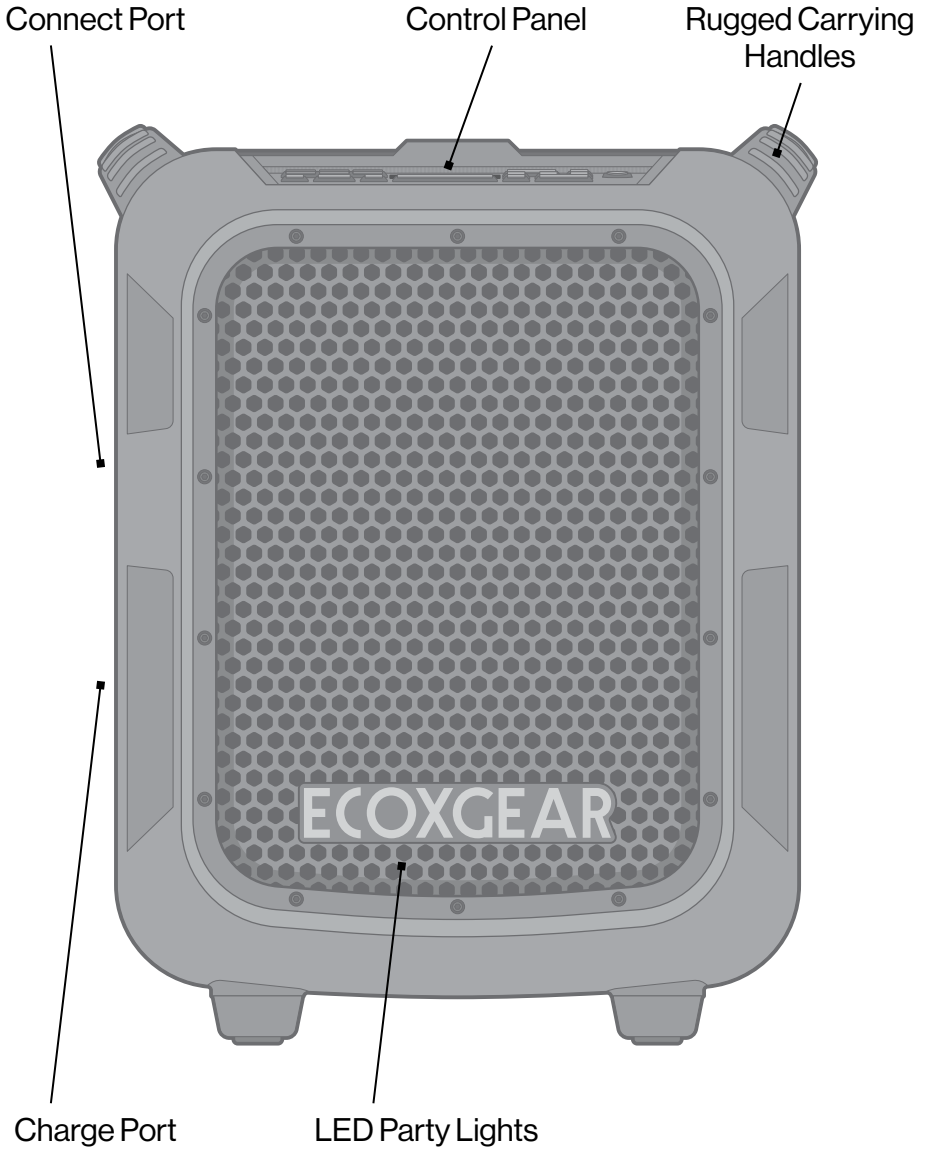
- A 5V, 2.1A USB-C charge output for charging your phone.

And More!

- Large LED display for function menu options.
- Rugged wheel and extra long telescoping handle for easy transport.
- Built-in bottle opener.
- Large cup holders (large enough for insulated mugs).

Boulder Ultra Overview

Boulder Ultra Layout



FRONT

Boulder Ultra Overview

Storage Pocket

Retractable Handle



Rugged Wheels

BACK

Connections + Power

Inputs and Outputs

Do **NOT** use these connections if they are wet.

Microphone Input: ¼" (6.35 mm) mic jack. You can input a microphone, guitar, or other musical instrument.

Auxiliary Input: 3.5mm audio jack. This input can be used to connect a phone, tablet, CD player, MP3 player, etc.

USB-C Charging Port: Connect your device's charge cable here to charge it. USB-C charging only functions when the Boulder Ultra's power is turned on. USB-C port rating is 5V, 2.1A.

Power

Do **NOT** plug unit into wall power outlet if power cable jack is wet.

Use Caution: 120V AC Power Input. Contact may cause electric shock and injury if wet.

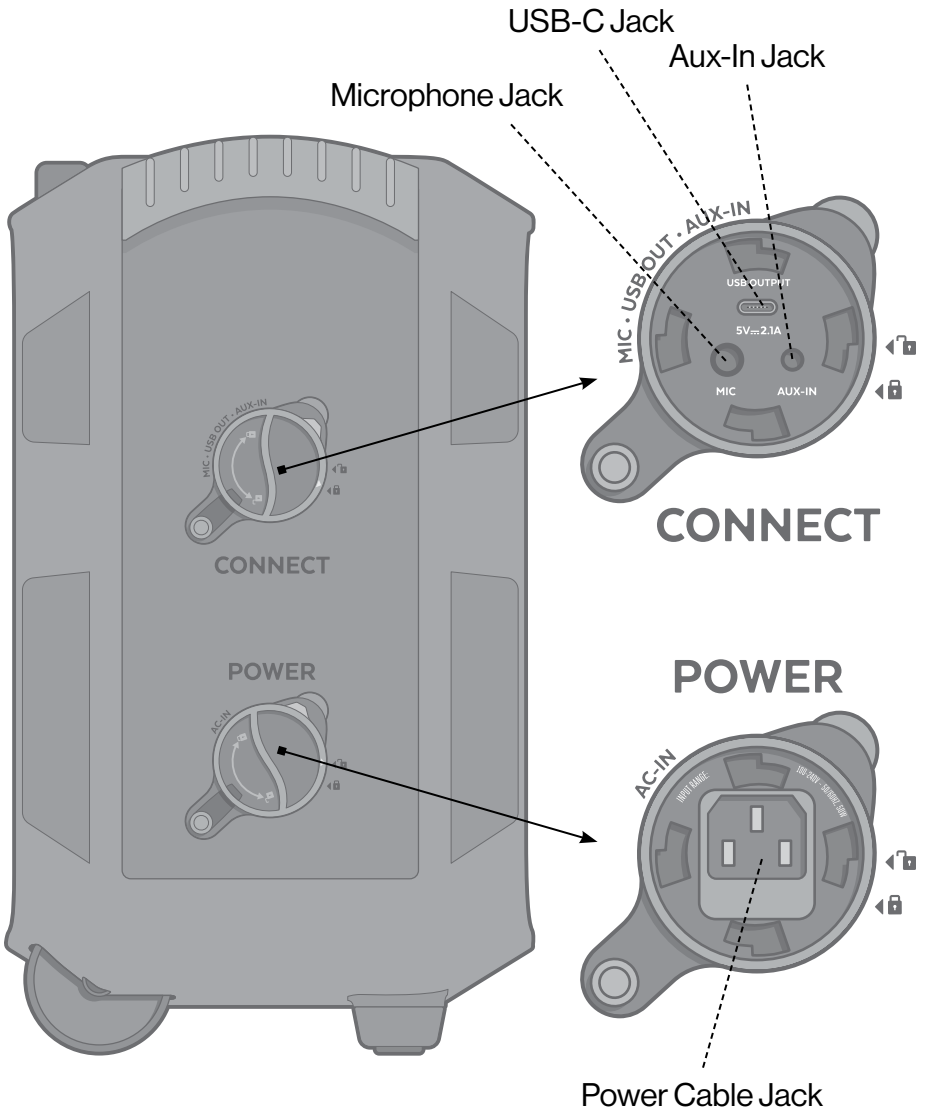
Insert the included power cable to charge the Boulder Ultra.

The ⚡ icon will be on when plugged into AC power. When the power cable is connected, blinking of the battery segments shows the battery is charging. When fully charged, all battery segments will be lit without blinking. It can take 4 to 8 hours to fully recharge the battery from empty.

Notes:

- Fully charge prior to first use (4-8 hours).
- Fully charge prior to extended storage (4-8 hours).
- The Boulder Ultra can be played while battery charges.
- Contact ECOXGEAR customer support at **support@gracedigital.com** prior to attempting to replace battery.
- Store unplugged, but fully recharge every 3 months (4-8 hours).
- Do **NOT** leave a unit plugged in and charging continuously for more than 8 hours after the unit indicates a full charge.

Connections + Power




LEFT SIDE


Connections + Power

Important: Maintaining Waterproofness

If the caps on the left side panel are not properly closed, the unit is **NOT** watertight.

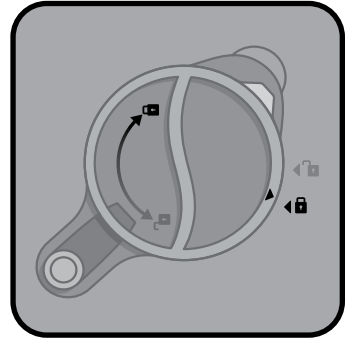
Waterproof Caps

To close properly, turn the cap clockwise so the cap's arrow point lines up with the locked symbol .

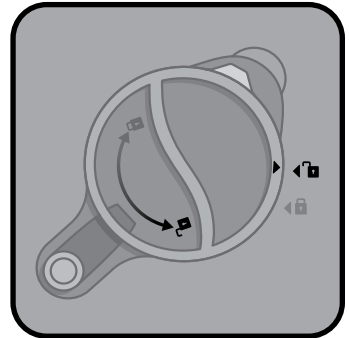
To access the connections, turn the cap counterclockwise so the cap's arrow point lines up with the unlocked symbol , then pull the tab on the cap to open.

Notes:

- The storage pocket on the right side panel is **NOT** waterproof. Only the waterproof phone case within the storage pocket is waterproof.
- The storage pocket is attached to your Boulder Ultra with hook and loop self-fasteners, so you can remove it and take it with you.

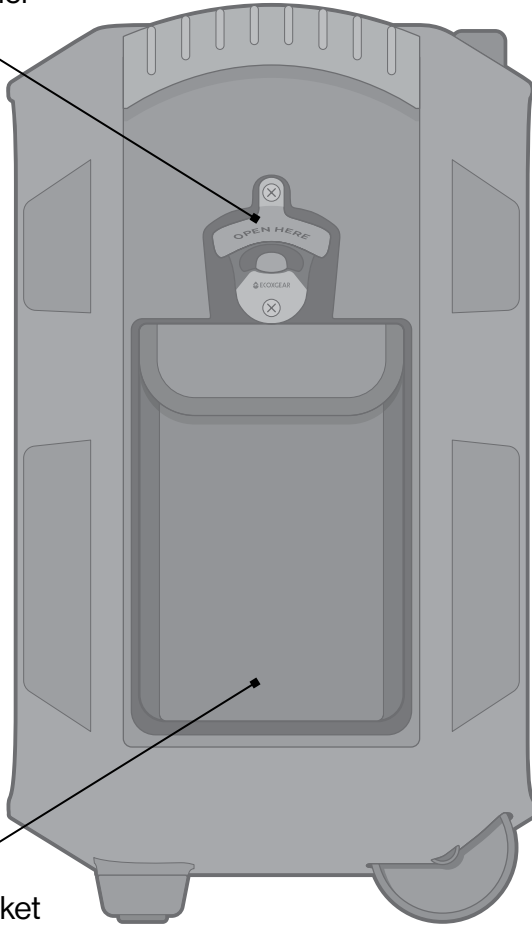


Lock



Unlock

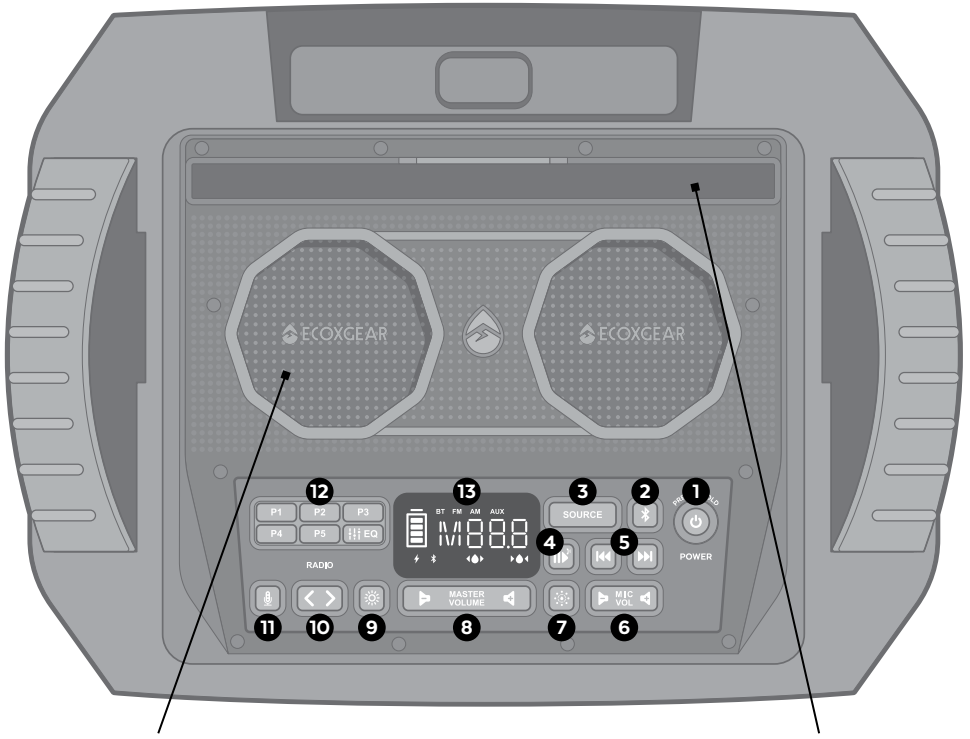
Bottle Opener



Storage Pocket

RIGHT SIDE

Display + Controls Overview



Cup Holders

TOP

Secure Cradle
for Devices

1. **Power Button:** Press and hold for 3 seconds to turn Boulder Ultra on or off.
2. **Bluetooth Button:** When in Bluetooth mode, if the Bluetooth icon is not flashing on the LED screen, press this button to enter pairing mode. If your device is paired (solid icon on LED screen), press button to disconnect. **Press and hold** this button for 5 seconds to clear all pairing records.
3. **Source Button:** Press this button to cycle through the following modes: Bluetooth, FM, AM, and AUX.
4. **Play / Pause / Answer Button:** Press to play / pause a track or answer / end a mobile call from a paired Bluetooth device.
5. **Track Buttons:** Press these buttons to go to the previous/next track on a paired Bluetooth device.
6. **Microphone Volume Control:** Press to adjust the microphone volume. **Press and hold** to adjust the volume continually (volume levels are 0 to 30).

Display + Controls Overview

7. **EcoCast Button:** If you have purchased additional Boulder Ultra speakers (or other ECOXGEAR speakers bearing the EcoCast symbol), short-press this button to cycle through Speaker Mode, EcoCast Transmitting Mode, and Receiving Mode. **Press and hold** this button to initiate EcoCast pairing with another EcoCast-enabled speaker.
8. **Master Volume Control:** Press to adjust the speaker's main mix volume. **Press and hold** to adjust the volume continually (volume levels are 0 to 30).
9. **Party Lights:** Press to cycle through 44 LED Lighting Modes. When **press and hold** for 3 seconds to turn Party Lights off. Double-click to cycle back to the previous LED Lighting Mode.
10. **Tune Buttons:** Press these buttons to tune in a radio station. To “seek” (jump to the next available station), **press and hold** either button down for a few seconds until it starts to seek a station.
11. **EcoTalk Button:** This button activates your Voice Assistant (Siri and Hey Google).
12. **AM / FM Presets and Equalization Buttons:** Store up to 5 of your favorite AM/FM radio stations and quickly tune to a Preset radio station. Press the EQ Button to activate the Bass and Treble controls. **Press and hold** the EQ Button for 3 seconds to activate the Preset EQ Modes.

13. LED Screen Icons:



Indicates the battery level of the Boulder Ultra.



Indicates the Boulder Ultra is charging.



When the battery level is less than 20%, the first bar will blink.



Indicates the Boulder Ultra is in EcoCast Transmitting Mode.



Indicates that the battery level is very low.



Indicates the Boulder Ultra is in EcoCast Receiving Mode.



In pairing mode, the icon will flash. If the connection is successful, the icon will be solid.

Display + Controls Overview

BT

The Boulder Ultra is in the Bluetooth mode.

V L 0 7

Indicates the speaker volume level of Boulder. (0 to 30)

FM

The Boulder Ultra is in FM mode.

M L 1 5

Indicates the microphone vol. level of Boulder. (0 to 30)

AM

The Boulder Ultra is in AM mode.

^{FM} 9 9. 6

Indicates the current FM station of the Boulder Ultra.

AUX

The Boulder Ultra is in Aux-In mode.

^{AM} 5 2 0

Indicates the current AM station of the Boulder Ultra.






Power On/Off

Power On: Press and hold  for 3 seconds to power on the Boulder Ultra. It will announce, “Speaker on, ready to connect.”


Power Off: Press and hold  for 3 seconds to power off the Boulder Ultra.

Connecting and Playing Bluetooth Audio



1. **Press and hold** the Power Button  to turn the speaker on.
2. Short-press the Source Button to cycle through the Audio Modes until the BT icon appears on the LED Screen and you hear, “Speaker Mode,” announced.
3. On your phone's Bluetooth settings, select '**SoundEx-Boulder**' to pair. If you don't see the speaker name, turn your phone's Bluetooth off and back on again to refresh the list, or short-press the Bluetooth Button  on the speaker to enable Bluetooth Pairing again.
4. Wait for a few seconds. Once the pairing and connection are complete, the speaker will announce, “Your phone is connected,” and the Bluetooth icon  on the LED Screen will shine solid.
5. Once connected, select and play your desired audio. You can now use the Play / Pause Button, Volume Control Buttons, or Track Buttons to control your audio.



Audio Functions

Notes:









- If the pairing is not complete within 5 minutes, the speaker will exit the pairing mode. You need to repeat the pairing steps again.
- After the connection is successful, if you turn the speaker off and turn it on again, it will reconnect to the last connected device automatically. Also, the voice prompt, "Speaker on, ready to connect" followed by, "Connection successful" will be heard.
- **Press and hold**  for 5 seconds to clear all pairing records.

Bluetooth Audio Controls

Play / Pause: After the Boulder Ultra is connected to your Bluetooth device, press  briefly on the Boulder Ultra to play. Press  again to pause.

Tracking: Short-press  to play the previous audio track. Short-press  to skip to the next track.

Adjust the Master Volume



1. Press  **MASTER VOLUME**  briefly to adjust the speaker volume.
2. **Press and hold**  **MASTER VOLUME**  to adjust the speaker volume continuously (volume levels are 0 to 30).
 - a. Press  briefly to increase one volume level. **Press and hold**  to keep increasing the volume until maximum volume level is reached.
 - b. Press  briefly to decrease one volume level. **Press and hold**  to keep decreasing the volume until minimum volume level is reached.

Notes:



- If a call is received when you are listening to music, the music will pause automatically.
- You can also control Volume and Play / Pause music operations from your Bluetooth enabled device.

Dual Simultaneous Connections and Switching Media Player Between Two Phones

Your Boulder Ultra is capable of maintaining simultaneous connections with two smartphones, which allows you and your family or friends to share music on the speaker by switching the music playback between your phone and your family member or friend's phone. Follow the steps outlined below to switch back and forth between two phones.

1. Connect your phone to the Boulder Ultra.
2. Short-press the Bluetooth Button  on the Boulder Ultra. This will disconnect your phone and enable Bluetooth pairing. Connect another phone to the Boulder Ultra.
3. **Press and hold** the Power Button  on the Boulder Ultra. The speaker will turn off. Then **press and hold** the button again to turn the speaker on.
4. Your Boulder Ultra will automatically reconnect to both phones.
5. Play a selected music track on your phone. Your Boulder Ultra will play your music.
6. On the other phone, select a music track to play. Your Boulder Ultra will play the music from the other phone. The media player on your phone will pause or stop.
7. If you want to switch back to your phone, press the play button on your phone's media player, your Boulder Ultra will play the music on your phone. The media player on the other phone will pause or stop.

Listening to AM/FM Radio

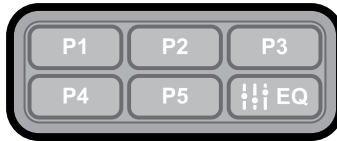
Press the Source Button briefly to switch to FM or AM. Press   to tune in a radio station. To "seek" (jump to the next available station), **press and hold** either button down for a few seconds until it starts to seek a station.

Audio Functions

Press  **MASTER VOLUME**  to adjust the volume.

Note: LED lights are known to create interference (noise) on some FM radio frequencies (stations). When you tune or seek a station, it is recommended that you turn the LED Party Lights off.

AM/FM Presets



The Boulder Ultra has 5 Presets for AM stations and 5 Presets for FM stations. The 5 Preset Buttons (P1~P5) allow you to store a favorite radio station to a Preset or quickly tune the AM/FM radio to a Preset station.

- While listening to an AM or FM station you want to store, **press and hold** a Preset Button (P1-P5) to assign the current station to that Preset number. The LED screen will flash 2 times to indicate it has been set.
- If you want to listen to a stored Preset, press a Preset Button (P1-P5) to go to the stored radio station.

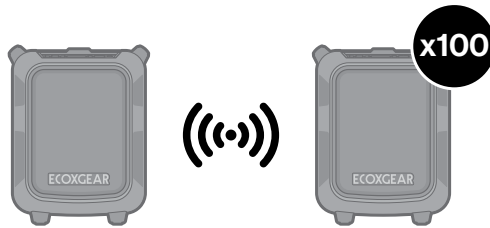
Play Aux-In Audio

To make an Aux-In audio connection, follow the steps below.

1. Open the Connect Port waterproof cap.
2. Plug in a 3.5mm audio cable (not included) into the audio output on the source unit.
3. Plug in the other end of the 3.5mm audio cable into the Boulder Ultra's Aux-In Jack.

To play the Aux-In audio, short-press the Source Button to cycle through to Aux-In Audio Mode. The speaker will now play audio from the source unit.

EcoCast – Stream Music Between Multiple Speakers



The Boulder Ultra has EcoCast built-in, which allows the speaker to broadcast (transmit) or receive wireless audio streams to or from other EcoCast-enabled products.

EcoCast Streaming: Two Modes


Use the Source Button to set the speaker into EcoCast Transmitting Mode or EcoCast Receiving Mode:

1. EcoCast Transmitting Mode: When set in this Mode, the EcoCast Transmitting speaker broadcasts audio to multiple wireless connected EcoCast-enabled speakers.

The Transmitting speaker's audio streaming can be the music played from your phone (via Bluetooth), AM/FM Radio, or Aux-In Audio.

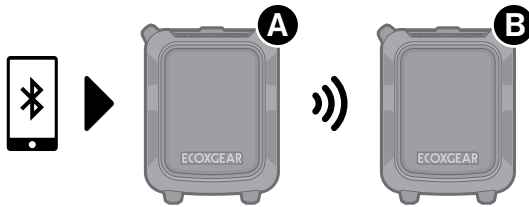
2. EcoCast Receiving Mode: When set in this Mode, the speaker will receive audio from an EcoCast Transmitting speaker, soundbar, or radio.

Notes:

- When set to Speaker Mode, the speaker turns the EcoCast capability off.
- When you have two or more Boulder Ultras or other ECOXGEAR or SoundExtreme speakers bearing the EcoCast symbol , you can build a broadcast system by initiating EcoCast Transmitting Mode in one speaker and broadcasting your music to one or more EcoCast-enabled speakers in EcoCast Receiving Mode.

Audio Functions

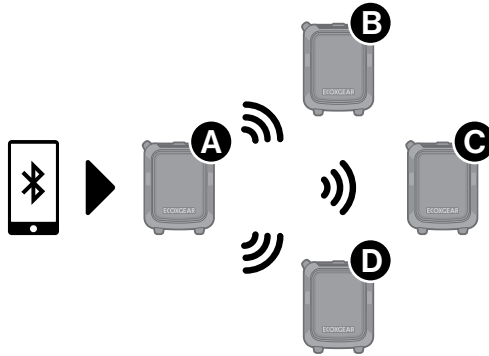
EcoCast: First Two Speakers








Follow the steps below to pair two Boulder Ultra speakers:

1. Follow the **Connecting and Playing Bluetooth Audio** instructions to connect one Boulder Ultra (**Speaker A**) to your Bluetooth device. After your device is connected to **Speaker A**, you can play your desired audio.
2. Press the EcoCast Button  to put **Speaker A** into EcoCast Transmitting Mode. The EcoCast Transmitting icon  will flash on the LED screen, and the speaker will announce, "EcoCast transmitting."
3. Turn on the other speaker (**Speaker B**) and press the EcoCast Button  to cycle through to and initiate EcoCast Receiving Mode. The EcoCast Receiving icon  will flash on the LED screen, and the speaker will announce, "EcoCast receiving."
4. Once the connection between the speakers is successful, **Speaker B** will announce, "Connection successful," and start playing audio from your Bluetooth device.

EcoCast: Additional Receiving Speakers



1. Turn on the additional EcoCast-enabled speakers (**Speaker C** and **Speaker D**) and press the EcoCast Button  to cycle through to and initiate EcoCast Receiving Mode. The EcoCast Receiving icon  will flash on the LED screen, and the speaker(s) will announce, “EcoCast receiving.”
2. On **Speaker A** (the speaker with the EcoCast Transmitting icon  on), **press and hold** the EcoCast Button  for 3 seconds. The EcoCast transmitting icon  will flash.
3. Once the connection between the speakers is successful, **Speaker C** (and **Speaker D**) will announce, “Connection successful,” and start playing audio from your Bluetooth device.

Notes:





- If all the speakers are turned off, then turned on, the speakers in EcoCast Receiving Mode (**Speakers B, C, and D**) will automatically reconnect to the speaker in EcoCast Transmitting Mode (**Speaker A**). If they do not automatically reconnect, please follow the above steps to reconnect.
- The EcoCast functionality has a maximum range of 30 feet between speakers.
- While connecting the speakers, make sure that they are within a few feet of each other.

Audio Functions

Play Audio Streams From Another EcoCast-Enabled Speaker





If there is an EcoCast-enabled speaker in EcoCast Transmitting Mode nearby, you can set your Boulder Ultra speaker (**Speaker A**) to EcoCast Receiving Mode and play audio streams from the EcoCast Transmitting speaker (**Speaker T**):

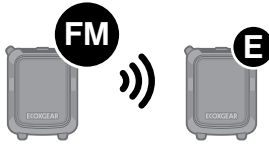
1. Turn on **Speaker A**, press the EcoCast Button  to cycle through to EcoCast Receiving Mode. The EcoCast Receiving icon  will flash on the LED screen, and the speaker will announce, “EcoCast receiving.”
2. On **Speaker T**, **press and hold** the EcoCast Button  for 3 seconds. The EcoCast Transmitting icon  will flash on the LED screen, and the speaker will announce, “EcoCast transmitting.”

Note: If **Speaker T** is not an Boulder Ultra, it may require a different button operation to enter EcoCast Transmitting (Pairing Ready) Mode. Please refer to **Speaker T’s** User Guide.

3. Once the connection between the speakers is successful, **Speaker A** will announce, “Connection successful,” and start playing audio.





Note: You can press  **MASTER VOLUME**  on the EcoCast Receiving speaker to adjust the volume for the EcoCast Receiving speaker only. However, as soon as the EcoCast Transmitting speaker has a playback change (e.g., track change or a volume change), the audio stream volume level received by the EcoCast Receiving Boulder Ultra will be the same as the audio stream output from the EcoCast Transmitting speaker. So, the overall volume on the EcoCast Receiving speaker will change accordingly.

EcoCast: Streaming Your AM/FM Radio Station or Aux-In Audio to Multiple Speakers







The Boulder Ultra speaker (**Speaker FM**) also has the capability to stream AM/FM radio stations or Aux-In Audio to other EcoCast-enabled speakers in Receiving Mode.

When playing an AM/FM radio station, the Boulder Ultra automatically enables EcoCast Transmitting; however, each time the Audio Mode is switched to Aux-In Audio, EcoCast Transmitting is disabled.









- To enable EcoCast Transmitting, press the Master Volume  and  Buttons on the Control Panel at the same time. The Boulder Ultra's LED Screen will display, "On."
- To disable EcoCast Transmitting again, press the Master Volume  and  Buttons on the Control Panel at the same time. The Boulder Ultra's LED Screen will display, "Off."

To transmit AM/FM radio stations or Aux-In Audio streaming via EcoCast, follow the steps below:

1. Turn on another EcoCast-enabled speaker (**Speaker E**), press the EcoCast Button  to cycle through to EcoCast Receiving Mode. The EcoCast Receiving icon  will flash on the LED screen, and **Speaker E** will announce, "EcoCast receiving."
2. On **Speaker FM**, **press and hold** the EcoCast Button  for 3 seconds. The EcoCast Transmitting icon  will flash on the LED screen.
3. Once the connection between the speakers is successful, **Speaker E** will announce, "Connection successful," and start playing audio.

Audio Functions


Adjust the Microphone Volume

1. Press  **MIC VOL**  briefly to adjust the microphone volume.
2. **Press and hold**  **MIC VOL**  to adjust the microphone volume continuously (volume levels are 0 to 30).
 - a. Press  briefly to increase one volume level. **Press and hold**  to keep increasing the volume until maximum volume level is reached.
 - b. Press  briefly to decrease one volume level. **Press and hold**  to keep decreasing the volume until minimum volume level is reached.

Notes:

- This function only adjusts the external microphone input jack.
- The internal microphone used for EcoTalk (the activation of voice assistants, such as Siri and Hey Google, on your device), and phone calls is not independently adjustable from the Master Volume.
- To achieve the maximum microphone volume, the Boulder Ultra Master Volume and Microphone Volume must be turned to maximum.

EcoTalk

Press the EcoTalk Button  to activate the voice assistant on your device (Siri, Hey Google, etc.). Once activated, the speakerphone mic on your Boulder Ultra will hear your voice commands and transfer them to the voice assistant on your device.

Notes:


- Before using the EcoTalk function, your device must be connected to the Boulder Ultra via Bluetooth.

- Not all devices have voice assistant functionality; refer to your device for details.

Equalization

We programmed the Boulder Ultra with a default audio setting that we feel is the best combination of max volume, strong bass, crisp treble, and minimized distortion; however, we also built in an equalizer that allows you to adjust the audio output to suit your preferences.




The Boulder Ultra offers 2 methods to adjust your EQ settings:

1. Preset EQ: Short-press the EQ Button  **EQ** to activate the Preset EQ Modes Screen. Use the Tune Buttons **<** **>** to cycle through the following five presets:
 - IN – This setting is optimized for inside audio. It is a neutral and balanced setting.
 - OUT – This setting is optimized for outside audio. It is not as balanced as the inside settings but instead optimized to play music in open and/or windy environments.
 - DEF (Default) – This default setting is created by ECOXGEAR to provide the best neutral audio sound for any setting.
 - VOC – This setting is optimized to enhance the audio performance for speech such as when listening to news and sporting events (e.g., listening to a play-by-play announcer of a football game).
 - BAS – this setting is for those who prefer a louder bass response when listening to their music.



Note: After six seconds of inactivity, the Boulder Ultra will automatically exit the Preset EQ Modes Screen. The EQ Button must be pressed again to change EQ Modes.

Audio Functions






2. Bass and Treble Settings: **Press and hold** the EQ

Button  **EQ** for 3 seconds to activate the Bass controls and once more to activate the Treble controls. Use the Tune Buttons   to decrease/increase the Bass and Treble. Both the Bass and Treble levels range from -4 to 4.

Notes:

- The Boulder Ultra will automatically save your EQ settings even after powering the speaker off.
- To revert back to the factory default audio settings, **press and hold** both the  **EQ** and the Master Volume  Buttons for 5 seconds.


LED Screen: Preset EQ Modes

	Inside Audio: Optimized for playing music indoors.		Vocals: Optimized for speech.
	Outside Audio: Optimized for playing music outdoors.		Bass Boost.
	Default: The default setting for best overall performance.		

LED Screen: Base and Treble Icons

	Minimum Treble level of -4.		Minimum Bass level of -4.
	Maximum Treble level of 4.		Maximum Bass level of 4.

LED Lighting Zones, Modes, and Scenes


The Boulder Ultra has addressable RGB LED Party Lights behind the front grill and a built-in LEDCast LED lighting controller. In addition to the Party Lights Button  on its Control Panel, the Party Lights can also be controlled by the Free SoundExtreme Smartphone App. Below are some terms and definitions to help you better understand the LED lighting control functions.



Zone

A Zone corresponds to all the LED lights that are connected directly to one physical connection on an LED Lighting Controller output, either integrated in the Boulder Ultra or in an ExtremeController (sold separately). When you change a Zone status (on / off, Mode, etc.), the LEDs connected to that Zone will change accordingly. You can control one Zone or multiple Zones at a time.

The integrated LED Lighting Controller on the Boulder Ultra supports 1 Zone: The RGB LED Party Lights behind the front grill.


Mode

There are 3 LED Mode categories, totaling in 44 Modes supported by the Party Lights Button . The SoundExtreme app can support many more Color Modes.

1. Color Mode: Each Color Mode lights up the LEDs in a solid color. Among the 44 Modes, there are 8 predefined Color Modes: Red, Green, Blue, White, Orange, Yellow, Cyan, and Purple. When you press the Party Lights Button  to cycle through the 8 Color Modes, the LED Screen will display, "A01" through "A08," accordingly. You can create a custom color by utilizing the SoundExtreme Smartphone App.
2. Party Mode: There are 20 predefined Party Modes accessible via the Party Lights Button  and SoundExtreme Smartphone App. When you press the Party Lights Button to cycle through the 20

Lighting Control Concepts

Party Modes, the LED Screen will display, “B01” through “B20,” accordingly. The app allows you to customize each of the 20 Party Modes, allowing for nearly unlimited color, cascading, and LED chasing options.

3. Music Mode: There are 16 Music Modes accessible via the Party Lights Button  and SoundExtreme Smartphone App. When you press the Party Lights Button to cycle through the 16 Music Modes, the LED Screen will display, “C01” through “C16,” accordingly.


Scene


A Scene is programmed 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.

The Boulder Ultra has 5 Scene settings. They are user customizable and programmable. The default Scene settings are:



- Scene 1: Patriot 1 (Red, White, and Blue)
- Scene 2: Flowing colors
- Scene 3: Zoom
- Scene 4: Fading colors
- Scene 5: Christmas (Red, Green, and White)

Control Panel: LED Party Lights Button


The Party Lights Button  on the Boulder Ultra Control Panel has two functions:

1. LED Lighting Mode Control
 - If the Party Lights are off, short-press the Party Lights Button  to turn on the lights. Each short-press after that will cycle through the 44 LED Lighting Modes.

Lighting Control Concepts

- When the LED lights are on, **press and hold** the Party Lights Button  for 3 seconds will turn the LED lights off.
- When the LED lights are on, double-click the Party Lights Button  to cycle back to the previous LED Lighting Mode.

2. LED Lighting Scene Control

- Press the P5 Preset Button and the Party Lights Button  at the same time to turn on the LED Lighting Scene. Then each press of these two buttons at the same time will cycle through the 5 predefined scenes. The LED Screen will display, “SC1” through “SC5,” accordingly.

LED Screen: RGB LED Lighting Modes and Scenes

A01

When cycling through the 8 predefined Color Modes, A01-A08 will be displayed.

B14

When cycling through the 20 predefined Party Modes, B01-B20 will be displayed.

C08

When cycling through the 16 predefined Music Modes, C01-C16 will be displayed.

SC3

When cycling through the 5 predefined Scenes, SC1-SC5 will be displayed.

SoundExtreme App

The Boulder Ultra's Party Lights can be operated via the SoundExtreme Smartphone App.

Download and Install

For iPhones, download the app from the following URL:

<https://apps.apple.com/us/app/soundextreme/id1670708941>

For Android phones, download the app from the following URL:

<https://play.google.com/store/apps/details?id=com.cchip.ecoxgear>

Alternatively, use the following QR Codes to download the SoundExtreme Smartphone App.



iOS



Android

App Overview

Password Secured: The app is password protected so others cannot gain access and control your Boulder Ultra. The default password is 0000.

Name Your Devices: You can change and customize the name of your devices and Zones, such as My Party Speaker, Backyard Speaker, etc.

Set Up Modes: Use the app to set up the LED Mode for each of the Zones on your speaker. You can also change the Brightness and Speed.

Create and save Scenes: A Scene is a preprogrammed light show that you can save for later quick-access. We have created 5 default Scenes that are fully customizable and programmable.

Set Up a Group: Create and set up a group of devices (multiple speakers, or other ECOXGEAR or SoundExtreme products with LEDCast built-in). This will allow all the LED lights connected to different devices to be controlled by the SoundExtreme Smartphone App at the same time.

Bluetooth Low Energy: The SoundExtreme Smartphone App relies on a BLE (Bluetooth Low Energy) connection between your phone and the Boulder Ultra. Make sure you turn on Bluetooth on your smartphone.

Initial App Connection


1. Launch the SoundExtreme App on your smartphone or other BLE-enabled device.
2. On the SoundExtreme App homepage, tap **Device Connection List**.

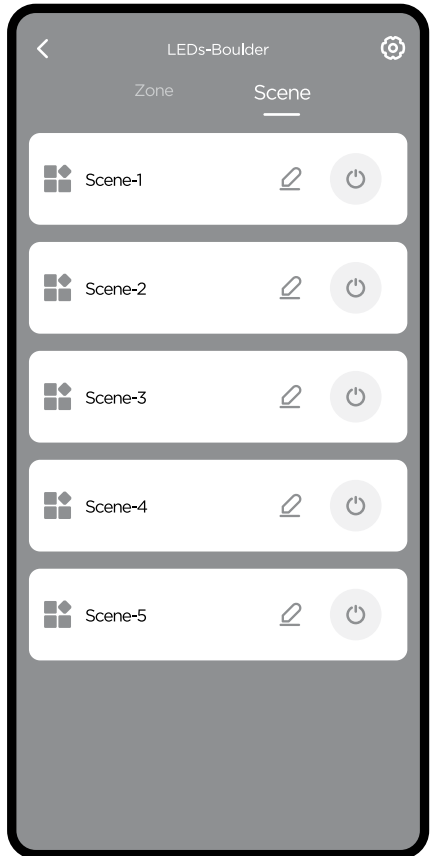
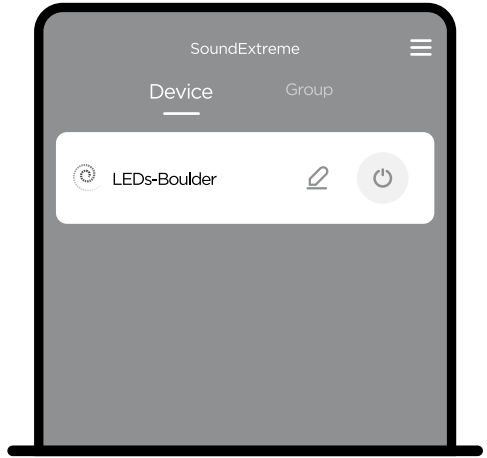


SoundExtreme App

3. If your Boulder Ultra is powered on, it will show up as **LEDs-Boulder** on the app's **Connect Device** screen. Tap the device name on the screen. A check mark will appear on the right. Tap the **Connect** button.
4. A dialog window will popup asking you to enter a password. The Boulder Ultra default password is 0000.



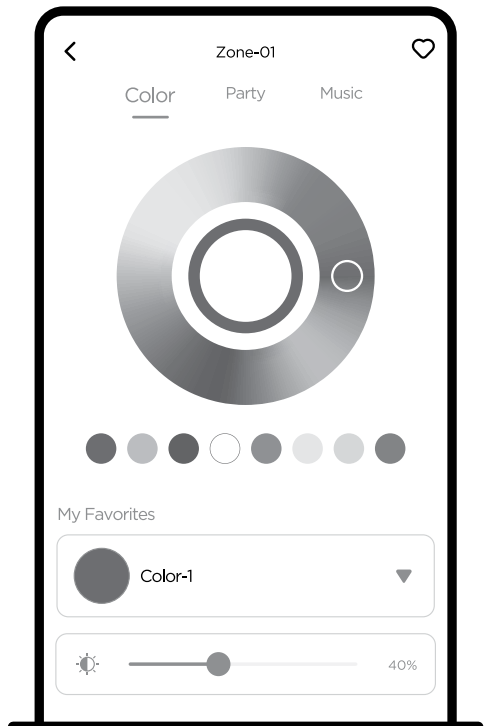
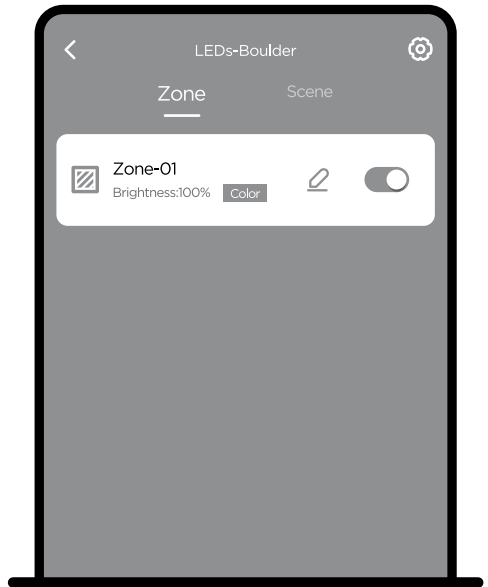
5. Select your Boulder Ultra. It will take you to the **Scene** screen. There are 5 predefined Scenes on the Boulder Ultra. You can turn on one of the 5 Scenes to light up the LEDs. For example, tap the On / Off button  at the right for Scene 1. The Party Lights will light up Red, White, and Blue, which is the LED Lighting Mode defined for Scene 1 – Patriot 1.



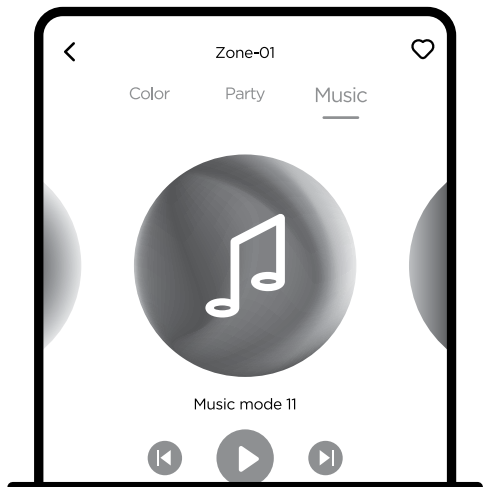
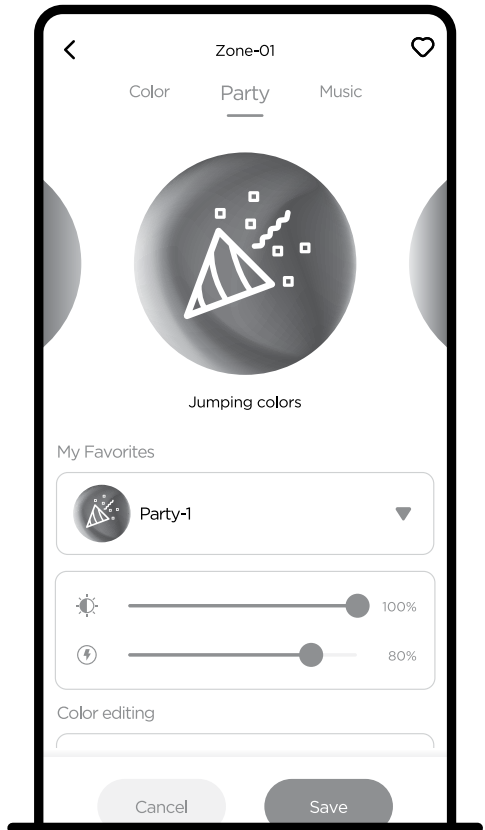
SoundExtreme App

Set Up Zones

1. Select your Boulder Ultra on the Device list, and the app will bring you to the **Zone** screen.
2. There is only one Zone available for the Boulder Ultra. Tap the Zone and you will go to the Zone LED Mode Settings screen. There are 3 tabs: Color, Party, and Music, which allow you to select a solid Color, a Party Mode, or a Music Mode.



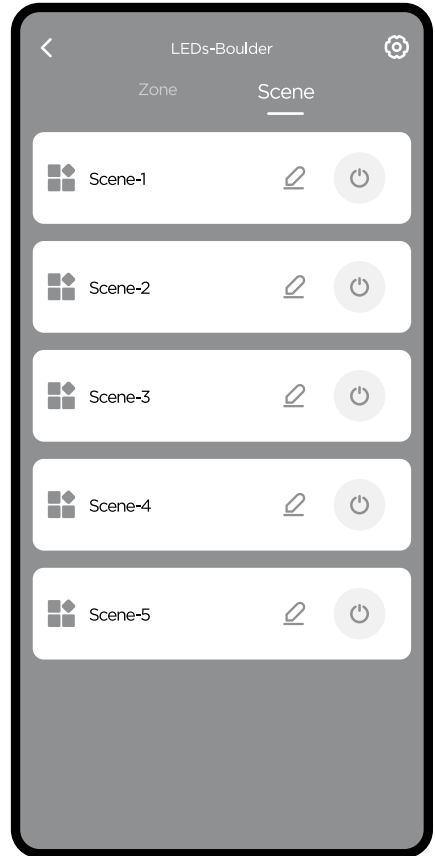
- When you choose a Mode, the LEDs connected to the Zone you selected will light up accordingly, giving you a preview.
 - If you tap the **Save** button on the screen, the app will save your setting for the selected Zone.
 - If you tap the **Cancel** button or exit the LED Mode Settings screen, your Mode selection will not be saved and LEDs connected to that Zone will display the previously selected LED Mode.
3. After you set up the Modes for each of the Zones, the Boulder Ultra setup is complete.



SoundExtreme App

Set Up Scenes



1. On the **Device** List screen, select your Boulder Ultra (**LEDs-Boulder**) and the app will bring you to the **Zone** screen. Tap the **Scene** tab. The app will show 5 predefined scenes on your Boulder Ultra.
2. You can change a Scene's LED settings by selecting any of the 5 Scenes. When you select the Scene, you will go to the LED Mode Setting screen. You can use the same procedure as in the **Set Up Zones** section to set up each Zone and save the Scene's new LED settings.
3. After you set up LED Modes for the Zone, the setup is complete for the selected Scene.

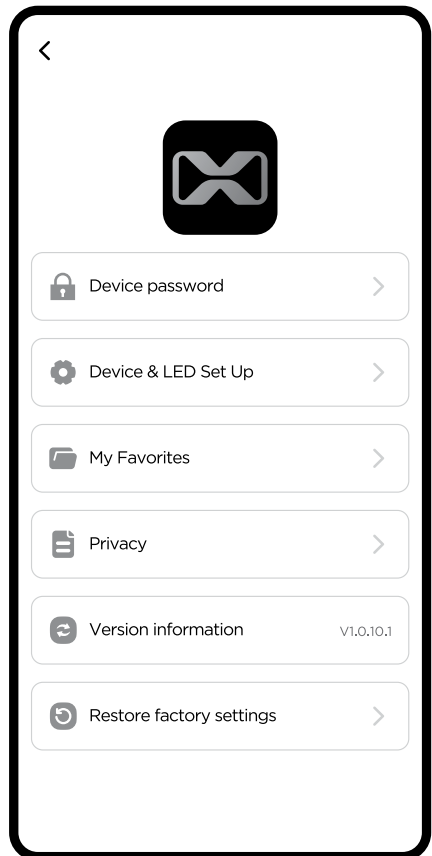
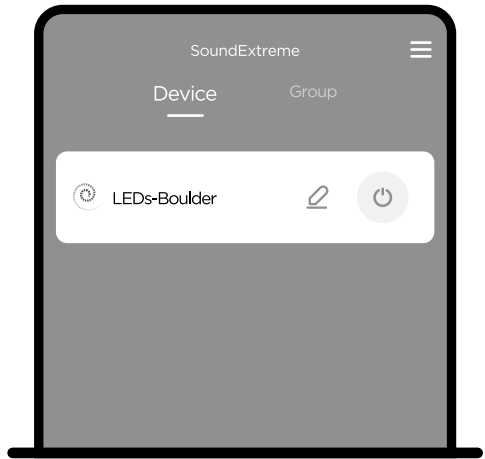


Change Password

To add extra security, you can change the default password of 0000 to your desired 4-digit numeric password. Please note that the password is stored in your Boulder Ultra, not the SoundExtreme App. So, after you change the password, please make a note in case you forget your password. The password won't be reset by reinstalling the app or changing to another smartphone. The only way to reset your password is to conduct a factory reset on your Boulder Ultra speaker.

Follow the steps below to change your password:

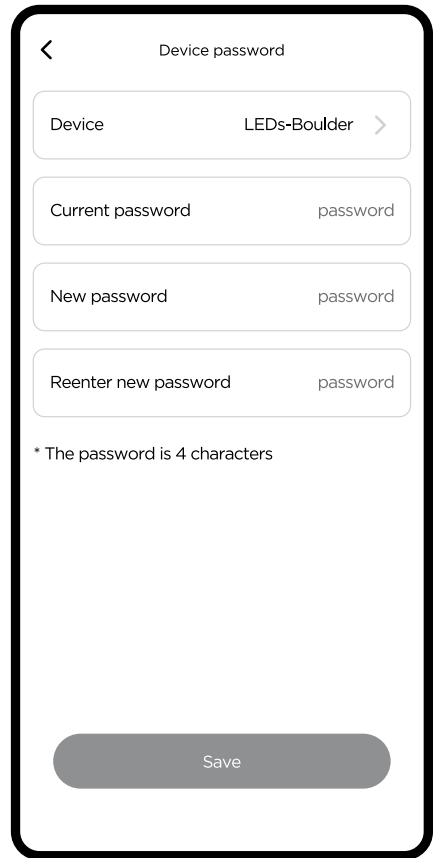
1. Select the Menu Icon  at the top-right corner of the screen.
2. Select  **Device Password** from the menu.



SoundExtreme App

3. Once at the Device Password screen, select the device that you want to change the password to.
4. Enter the current password, the new password, and re-enter the new password. Then tap the **Confirm** button.
5. If the change is successfully saved, the app will display a confirmation message.


This is a one-time event. You do not have to enter in your password every time you launch the app, as your app will remember your password.



The screenshot shows the 'Device password' screen. At the top, there is a back arrow and the title 'Device password'. Below the title are four input fields, each with a label on the left and a placeholder or value on the right. The first field is labeled 'Device' and has 'LEDs-Boulder' with a right-pointing chevron. The second field is labeled 'Current password' and has 'password'. The third field is labeled 'New password' and has 'password'. The fourth field is labeled 'Reenter new password' and has 'password'. Below these fields is a note: '* The password is 4 characters'. At the bottom of the screen is a large, rounded rectangular button labeled 'Save'.

Factory Reset

If you forget the password, you will need to do a Factory Reset on the Boulder Ultra so that the password is reset to its default value: 0000.

- While the Boulder Ultra is turned on, **press and hold** the P3 Preset Button and the Master Volume  Button on the Control Panel at the same time for 3 seconds. The Boulder Ultra will produce a prompt triple-beep tone, to show that the reset is successful.

Note: Besides the password reset, a Factory Reset will also configure the Boulder Ultra to the following factory settings:

- Zone 1 is set to Scene 1 – Patriot 1 with 100% Brightness and the Speed is set to 80%.
- All 5 customer configurable Scenes are set to the Factory Default Scenes.
- All 5 AM and FM station Presets are cleared.
- All the EcoCast and Bluetooth pairing records are erased.

Troubleshooting

The sound is distorted

Try lowering the volume control of your connected device or musical instrument. Also, try to reduce the overall volume of the Boulder Ultra.

Cannot Pair With Bluetooth Device

Make sure that your device is compatible with Bluetooth. Turn off your Boulder Ultra and Bluetooth device, then power on and reconnect. Make sure that Bluetooth mode is selected on your Boulder Ultra.

There is a high-pitched whistling noise when using microphone

This is probably feedback. Point the microphone away from the speaker.

If there is poor AM/FM reception

To adjust AM/FM reception, move entire product.

If you can't hear the microphone over the music volume

Turn up the Microphone Volume on the Boulder and turn down the music volume directly from your Bluetooth device to balance the two audio signals. Then turn up or down the Master Volume on the Boulder to adjust the overall audio volume.

Can NOT play music from a flash drive

The USB port is only for charging USB devices.

Water draining from bottom of unit

Holes in the base of the Boulder Ultra speaker are designed to allow excess water run-off to drain away from the speaker. Water draining from this area is normal and safe.

Volume level is too low

Increase the volume on the Boulder Ultra and / or increase the volume on your Bluetooth device.

Battery not properly charging

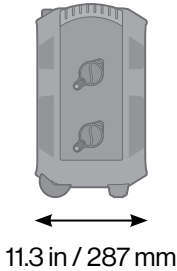
Twenty minutes after plugging into an AC power outlet, Boulder Ultra will check if the battery is rechargeable. If not, the individual bars on the battery level indicator on the LED screen will flash from top to bottom. (Normally, the battery segments will flash from bottom to top.) Please do **NOT** attempt to fix your Boulder Ultra unit. Please contact our Customer Support at support@gracedigital.com or call us at **800.903.9524**.

Can I replace the battery?

The battery in the Boulder Ultra is replaceable. Please visit www.ecoxgear.com for detailed instructions on how to get a new battery and the proper method for replacing the battery.

Caution: Improper handling of the battery may cause shock or injury.

Dimensions



Bluetooth Compliance

Bluetooth V 5.1

Bluetooth Frequency Band

2.402-2.480GHz ISM Spectrum

Modulation

GFSK, $\pi/4$ -DQPSK, 8DPSK

Bluetooth Range

Up to 100 ft / 30m

Tweeter

3" (76.2mm) tweeter

Passive Woofer

8" (203.2mm) woofer

Woofers

8" (203.2mm) full range woofer

Output Power

100 W (peak)

Power Source

12V, 7.0Ah SLA Battery

Power Supply

Input voltage: 110-230V-50/60Hz

USB-C Output

5V, 2.1A

Charging Time

Approximately 8 hours

EcoCast Range

30 ft / 9.1 m between Casting speaker and Receiving speakers

Compatibility

Mobile phone/device supporting Bluetooth V1.1 (and above)

Radio Frequency Range

US: AM 520 - 1710 kHz,
FM 87.5 - 107.9 mHz

Fuse

Glass tube (slow-blow)
 \varnothing 5.2x20mm; 250V, 1A

Storage Temperature

-40°F to 122°F / -40°C to 50°C

Operating Temperature

23°F to 95°F / -5°C to 35°C

Waterproof / Dustproof Rating

IP67

Play Time

Up to 100hrs in standby, 50hrs play time, 10hrs play time at max. volume

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: To maintain compliance with FCC's RF Exposure guidelines, this equipment should be installed and operated with minimum distance between 20cm the radiator to your body. Use only the supplied antenna. FCC ID: 2AAUI-GDIEXBMP510

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 ECOXGEAR Bluetooth speaker is intended to be used indoors or outdoors and in land or water environments. The speaker has been tested to IP67 waterproofing standards, which means the speaker can be submerged in up to 3 feet of water for 30 minutes without any damage. However, the speaker is **NOT** intended for constant underwater use.

Always make sure the cap(s) / cover(s) are clean, free from sand or debris, and correctly fitted. The speaker will only meet IP67 ratings if all rubber seals, gasket(s) and cover(s) / cap(s) are in place. If you notice a muffling of audio after submersion, gently shake the unit to clear excess water. If your speaker is exposed to salt water, clean it thoroughly after use with fresh water.

The power cable and the unit with an improperly fitted cap are **NOT** waterproof.

To prevent fire or shock, do **NOT** attempt to charge this unit if it is wet or you suspect water has entered the unit. In this situation, please return the unit to Grace Digital 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** charge while the unit is wet. Towel dry the unit **AND** make sure all connections are dry **BEFORE** plugging in the charging connector. 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

WARNING: Danger of explosion if battery is incorrectly replaced.

CAUTION: The unit can be used with the main power cord disconnected, the unit is readily operable with the main power cord disconnected.

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

Important Legal Information

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 ECOXGEAR speaker. Audio levels should be appropriate to your environment, comply with all local regulations, and always ensure that you can hear and be aware of any potential hazards around you.

You should always

- 1.) Use the ECOXGEAR speaker in accordance with any music or noise rules and regulations.
- 2.) Properly seal the ECOXGEAR prior and after each use when in humid or water environments to avoid water damage to the internal components. Salt water / air is particularly corrosive. Always make sure that the gaskets are sealed when in a salt water environment and that the unit is properly rinsed off after use.
- 3.) Properly clean the ECOXGEAR and ensure the gaskets have no sand, dirt, or water on them prior to storage.
- 4.) Store your unit with all caps properly sealed to avoid long term internal moisture damage inside your unit.
- 5.) Completely dry and clean your ECOXGEAR prior to attempting to charge the unit.
- 6.) Return the ECOXGEAR to Grace Digital 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.

You should never

- 1.) Never charge your ECOXGEAR if you suspect water has entered the device. Charging a device with water inside could be potentially hazardous and cause fire or a spark.
- 2.) Never use your ECOXGEAR if you have dropped it or thrown it against a hard surface which may have destroyed the integrity of the speaker, housing, or gaskets. In the event of a severe impact to your unit, please return the unit to Grace Digital to review for potential damage.
- 3.) Never open the auxiliary doors in a water environment. This could cause water to ingress into the unit which could potentially be hazardous and cause a fire or a spark.
- 4.) Never connect a device to the auxiliary input jacks when in a water environment. The auxiliary jacks should only be used in a dry environment.
- 5.) Never attempt to fix, repair your ECOXGEAR unit. Please send it back to Grace Digital for any assessments and repairs.

CARE, MAINTENANCE & PRECAUTIONS:

- 1.) The unit is waterproof only when the caps and door are properly closed.
- 2.) Close the caps and door properly before use. If the unit is placed in water without the caps or door properly closed, water may enter into the unit and void your warranty.
- 3.) Dry unit completely before opening the caps or door. Do **NOT** open the caps or door if wet or in a wet environment.
- 4.) Do **NOT** apply excessive force to any surfaces of the unit when wet or in a wet environment.
- 5.) Do **NOT** use or store the unit in places with high temperature.
- 6.) **AVOID** prolonged exposure to ultraviolet radiation (UV sunlight) and strong magnetic fields.
- 7.) Periodically check the rubber seal on the caps and door for premature wear.
- 8.) Periodically clean the rubber with a soft moist cloth and ensure no objects such as dirt, hair, sand are on the rubber seal ring. Do **NOT** use any oily solvent or chemicals for cleaning.
- 9.) Rinse off the unit with tap water after use in salt water or swimming pool.
- 10.) Power and / or charge the built-in rechargeable battery for portable use by connecting the AC cord to an AC outlet.
- 11.) Noise and audio distortion may occur when the batteries are nearing end of charge.
- 12.) Do **NOT** remove the built-in battery. Do **NOT** remove the grill covers.

LIMITED MANUFACTURER'S WARRANTY:

Boulder Ultra 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. Grace Digital 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.ecoxgear.com for additional product & warranty information.



Boulder Ultra by ECOXGEAR, a division of Grace Digital Inc., San Diego, California.
Designed in California. Made in China.

Patents Pending.