



# EcoLantern

Models: GDI-EXLTN400



User Guide

## Quick Start: Speaker

- 1 Open Cap on the back of your EcoLantern
- 2 Turn on the Master Power Switch
- 3 Press the Speaker Standby Power Button  to turn on your EcoLantern Speaker
- 4 Search your Bluetooth Connection on your Smart Device
- 5 Pair & Play

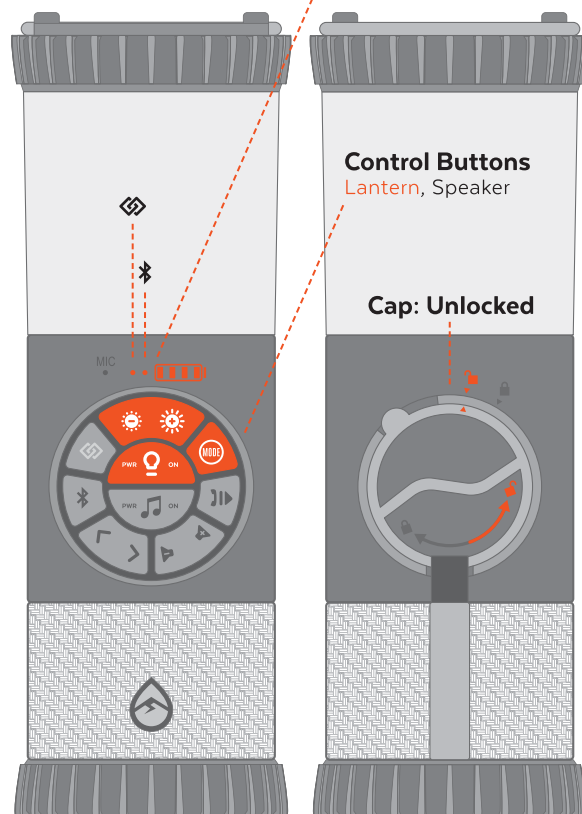
## Quick Start: Lantern

- 1 Open Cap on the back of your EcoLantern
- 2 Turn on the Master Power Switch
- 3 Press the Lantern Standby Power Button  to turn on your EcoLantern Light
- 4 Use Power , Mode , and Brightness  /  Buttons to adjust light

## About EcoLantern

The EcoLantern has a large variety of modes and brightness levels that ensure the EcoLantern is the perfect companion for all your adventures. The lantern light on the EcoLantern is controlled using the various control panel buttons. Once the Master Power Switch is turned ON, the control panel buttons can be used to turn on the light and change between the modes and brightness levels.

**LED Status Indicators**  
EcoConnect, Bluetooth,  
Battery Indicator



## Control Buttons & Operations

### Speaker On/Off

Press the Speaker Standby Power Button once to power On/Off.

**IMPORTANT:** Standby Power function will **NOT** operate when the Master Power Switch is set to OFF.



### Bluetooth

When turned On, the EcoLantern will power on and search for your Bluetooth. Refer to **Set Up Recommendations 1-2-3** part  for details.

### EcoConnect

Functionality is only available between two units. Refer to **EcoConnect - Wireless Stereo Connection of Two Speakers** for details.



### Speaker Volume

Press  to decrease or  to increase Speaker Volume.

**NOTE:** Some Bluetooth devices may require to be manually set for maximum audio level.

Your EcoLantern will beep to indicate when maximum or minimum volume setting is reached.

### Track Selection

Press button once to select Previous Song track  & Next Song track .

### Play/Pause/Answer

Press button once to pause & play song tracks and to answer mobile calls (**MUST** be paired with Bluetooth).

### PRESS AND HOLD

for Voice Assistant (Siri & Google Assistant).

### Lantern On/Off

Press the Lantern Standby Power Button once to cycle through four settings:

**Mode 1:** OFF

**Mode 2:** 360°

**Mode 3:** 180° - side 1

**Mode 4:** 180° - side 2

### Lantern Mode

Press the Mode Button once to cycle through five modes:

**Mode 1:** Warm White Light

**Mode 2:** Red Light

**Mode 3:** Color Fade

**Mode 4:** Music Sync Colors

**Mode 5:** Emergency -  
Flashing Red and  
White Lights

### Lantern Brightness

Press ☀️ to decrease or ☀️ to increase Lantern Brightness. Lantern Brightness ranges from 10% to 100%.

**NOTE:** Lantern Brightness only works in Warm White Light and Red Light modes.

### Battery Indicator 🔋

There are four LED Battery Level Indicators. Each LED represents 25% of a charge. Four full LEDs indicate a full charge.

Connect USB to power source. The Battery Indicator LEDs will flash sequentially to indicate unit is being charged.



## Set Up Recommendations 1-2-3

### 1 Charge Your EcoLantern



Before you power on your EcoLantern, connect the USB Micro port to the USB cable and a 5V power source to fully charge your EcoLantern for best performance.

**NOTE:** Before using your EcoLantern for the first time, charge the unit until all battery level indicators are solid **BLUE**, indicating a full charge.

Approximately 3 hours of charging is required from a low to a full charge.

Power source options include the USB connection to your computer or a power outlet using a 5V USB to AC power adapter. It is recommended to always use the USB cable and power adapter included with your EcoLantern.

## 2 Power On, Battery, & LED Status Indicators

Once fully charged, press the Speaker or Lantern Standby Power Buttons  /  on the front of your EcoLantern. When powering on, you will see the battery indicator LEDs and, if the speaker is turned on, you will hear, "Speaker On, Ready to Connect."

**IMPORTANT:** Make sure that the Master Power Switch, located in the back compartment under the cap, is set in the ON position. If the switch is in the OFF position, your EcoLantern will not be able to turn on using the Standby Power Button.

The LED battery level indicators are located on the front of the unit. Each bar represents 25% of a charge, with 4 full LEDs indicating a full charge.

Audio playback time over Bluetooth connection is approximately 20 hours at 75% volume. Light operating time is approximately 8 hours at 50% brightness.

## 3 Bluetooth Pairing & Your Audio

### Connecting With Bluetooth: Connect To Your Smart Device & Play Audio

When the speaker is turned on, the blue LED light on the front panel will flash, indicating the unit is ready to pair.

Turn on Bluetooth on your Bluetooth device (Smart Device) and set the device in pairing mode. Available Bluetooth connections shall appear. Select the ECOXGEAR speaker from the list of discovered devices on your Bluetooth device. Wait for a few seconds until the connection is completed.

**NOTE:** Bluetooth connection feature is found in the Settings section of most mobile phones and other Bluetooth enabled devices.

When the ECOXGEAR selection is made and the Bluetooth connection is completed, your EcoLantern will announce: "Connection successful"

Once connected, select and play your desired audio.

**Pairing Mode:** If the LED is not flashing or if you wish to place your EcoLantern in pairing mode, press and release the Bluetooth button on the front panel. Your EcoLantern shall announce “Ready to connect” when ready to pair to a new device.

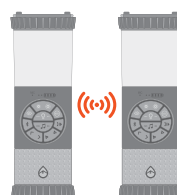
**NOTE:** Your EcoLantern shall sync & wirelessly pair with most Bluetooth enabled devices. The unit remembers the last device paired and will automatically search for previous connections when the speaker is turned on or when a device comes back into Bluetooth range. If a connection is lost due to range, the speaker will look to re-establish that connection. If Bluetooth is turned off on your Smart Device, the EcoLantern may not automatically look for the device.

**RECOMMENDATION:** If you are not familiar with Bluetooth pairing for your Smartphone or other Smart Device, refer to the User Guide for your Smartphone to learn how to add and pair a new device (EcoLantern for instance) to your Smartphone using Bluetooth.

**Bluetooth Pairing & Connections:** Once paired, should you have an issue switching between Bluetooth connections between devices, open the Bluetooth Section within the device currently connected to the EcoLantern and delete the Bluetooth connection. The EcoLantern will then be available to pair & connect to an alternate Bluetooth enabled Smartphone / Audio Device.

## EcoConnect - Wireless Stereo Connection of Two Speakers

When you have two EcoLantern speakers and want to wirelessly pair them for stereo sound, first follow the **Bluetooth Pairing & Audio** instructions to connect one EcoLantern speaker to your device. Leave this EcoLantern speaker powered on and connected to your device.



Next, turn on your second EcoLantern speaker. Once the second speaker is powered on (the Bluetooth light will be flashing), press and release the EcoConnect Button  on both of your EcoLantern speakers. Both speakers will announce, "EcoConnect, pairing speakers." Wait approximately 5 seconds for the speakers to wirelessly connect. When the two speakers are connected, one speaker will announce, "Speakers Paired, Stereo Mode, Left Speaker," the other will announce, "Right Speaker," and the EcoConnect light will turn solid **BLUE** on both units once the connection is completed.

Once the two EcoLantern speakers are connected via EcoConnect, start playing music from your device. Both connected EcoLantern units will play the music from your device.

While the two speakers are connected and playing music from your device, **PRESS AND HOLD**  to cycle through the three EcoConnect modes:


- Stereo: Left / Right
- Stereo: Right / Left
- Mono

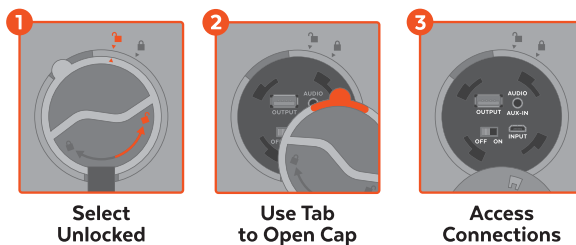
When switched to the Left / Right or Right / Left Modes, you will hear one speaker announce, "Stereo Mode, Left Speaker," and the other announce, "Right Speaker." When switched to the Mono Mode, both speakers will announce, "Mono Mode."

The EcoConnect connection between the two EcoLantern speakers will **NOT** automatically re-connect after the speakers are turned off. To re-establish an EcoConnect connection between the speakers, after they are powered off, please follow the above steps.

**NOTE:** The EcoConnect feature works when paired to another EcoConnect capable speaker with a distance of up to 30ft from each other. EcoConnect only works when using Bluetooth as your audio source.

## Master Power Switch & Connections


To access the connections, turn the cap to the **LEFT** so the cap's arrow point lines up with unlocked symbol , on the back of the unit. Use the finger tab to pull open the cap.

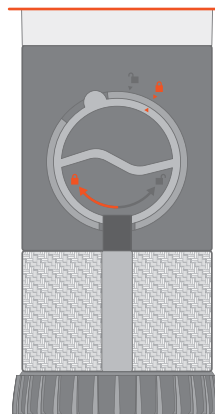


### Important: Maintaining Waterproofness

If the cap on the back panel is not properly closed, the unit is **NOT** watertight.



To ensure the unit is watertight & waterproof, **ALWAYS CLOSE THE CAP PROPERLY.**

Turn the cap to the **RIGHT** so the cap's arrow point lines up with the locked symbol , along the back of the unit.



## Back Panel: Functions

### Master Power Switch

EcoLantern has a separate Master Power Switch and two Standby Power Buttons. The switch **MUST** be set to the ON position to power your EcoLantern. Once the switch is set to ON, use the Standby Buttons  /  located on the front panel to turn the speaker or the light On/Off.

**NOTE:** When not in use for extended periods, turn the Master Power off to preserve battery life.

**IMPORTANT:** Standby Power function will **NOT** operate when the Master Power is set to OFF.

### Audio AUX-IN

Connect an audio device using the 3.5mm cable connection as an alternative to a Bluetooth connection to your EcoLantern.

**NOTE:** Volume level must be controlled from the audio device when connected to the AUX-IN connection.

### Input

Connect the USB cable to the USB micro Input to charge your EcoLantern.

**RECOMMENDATION:** Use the USB cable and power adapter included in the box.

**NOTE:** Charge time from low to full charge is approximately 3 hours.

While playing audio or using the light, EcoLantern can be charged or charge your device. Battery play time shall be reduced depending on the time and size of the device charging while connected to your EcoLantern.

**CAUTION:** Do **NOT** charge if unit and/or connections are wet or damp.

### Output

Connect to the USB Output (5V, 2.1A) port to charge your personal device. Use the USB cable included with your personal device.

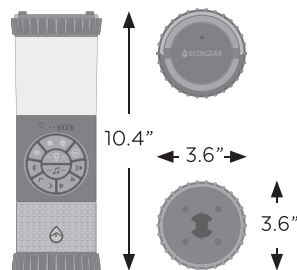
Charge time is approximately 1-2 hrs. from low to full for most Smartphones; however, charge times will vary depending on the device being charged, the device's battery specifications, and the device features.

In some instances your personal device may not indicate if charge is in process.

**CAUTION:** Do **NOT** charge if unit and/or connections are wet or damp.

## Specifications

### Unit Dimensions



### Unit Weight

11b 11oz

### Audio Output Power

RMS 5W

### S/N Ratio

88dB +/- 3dB

### Power Source

7.4V, 2200mAh  
Lithium Ion Battery

### USB Input / Output

5V, 2A / 5V, 2.1A

### Frequency Range

125Hz-18,000Hz

### Bluetooth

Bluetooth® CSR 4.1  
Up to 50 ft / 15 m

### EcoConnect

TrueWireless Stereo (TWS)  
Up to 30 ft / 9.1 m between  
paired speakers

### Bottle Opener (on Bottom)

Stainless steel

### Play Time

20+ hours from full charge at  
75% volume level

### Charging Options

USB to 5V AC adapter  
or Computer

### Charging Time

Approximately 3 hours

### Recommended Storage

(Battery) Temperature  
-68°F to 77°F / -20°C to 25°C

### Operating Temperature

23°F to 104°F / -5°C to 40°C

### White Light Brightness

Up to 400 Lumens

### White Color Temperature

4000 Kelvin

### Lantern Battery Life

4hrs to 24hrs (depending on  
mode and brightness)

### Brightness Levels

5 Levels (10%-100%) -  
White and Red modes

### Light Modes

White, Red, Color Fade, Music  
Sync Colors, Emergency

### Waterproof/

### Dustproof Rating

IP67

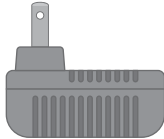
## What's in the Box



**EcoLantern Unit**



**User Guide**



**AC Power Adapter**



**USB Cable**

## Optional Accessories

### For Charging (Sold Separately)

USB Car Power Adapter (2A)

**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:** 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 IP68 waterproofing standards, which means the speaker can be submerged in up to 6 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) / covers(s) are clean, free from sand or debris, and correctly fitted. The speaker will only meet IP68 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 USB cables, power adapters, and 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: This product may contain chemicals listed in Proposition 65 ([www.oehha.ca.gov/prop65/prop65\\_list/Newlist.html](http://www.oehha.ca.gov/prop65/prop65_list/Newlist.html))
- WARNING: EcoLantern has a built-in Lithium battery. The battery must **NOT** be used in or near an open heat source or excessive heat.
- WARNING: Danger of explosion if battery is incorrectly replaced.
- ATTENTION: Do **NOT** dispose of in a landfill. Contact Grace Digital at [www.gracesupport.com](http://www.gracesupport.com) or a certified recycling agent to dispose of the unit.
- ATTENTION: AC adapter is a device forming a part of the main plug; therefore, an AC adapter can always be readily disconnected from AC socket-outlet.

### 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.

Do not attempt to mount the unit except with the approved ECOXGEAR mounts. 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) Use the proper ECOXGEAR mounts if you intend to mount the unit.
- 3) 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 salt water environment and the unit properly rinsed off after use.
- 4) Properly clean the ECOXGEAR and ensure the gaskets have no sand, dirt, or water on them prior to storage or removing the back cover.
- 5) Store your unit with all caps properly sealed to avoid long term internal moisture damage inside your unit.
- 6) Completely dry and clean your ECOXGEAR prior to attempting to charge the unit.
- 7) 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 speakers, housings, or gaskets. In the event

**GDI-EXLTN400****FCC ID: 2AAUI-GDIEXLTN400****IC ID: 11210A-GDIEXLTN400**

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Any changes or modifications not expressly approved by the party responsible for compliance

could void the user's authority to operate the equipment.

NOTE: 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.

To maintain compliance with FCC's RF Exposure guidelines,

this equipment should be installed and operated with minimum distance between 20cm the radiator your body:

Use only the supplied antenna.

**IC Caution:****RSS-Gen Issue 4 December 2014"&"CNR-Gen 4e Décembre 2014:**

- English:

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.

- French:

Le présent appareil est conforme aux CNR

d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

(1) l'appareil ne doit pas produire de brouillage, et

(2) l'utilisateur de l'appareil doit accepter tout

brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.