Lightguard

Wireless Trigger User Manual

Before using the Wireless Trigger, read this manual. The Wireless Trigger is a device that activates and de-activates the Lightguard system using BLE technology. It requires 3 AAA size batteries, please read the instructions for replacing them safely. To activate a Lightguard array, you must press the button once and with a firm touch, to learn more review the triggering instructions of this document.

Safety warnings

General safety warnings

- Read the user manual before using the product for the first time.

Battery safety warnings

- Do not leave the Wireless Trigger near a fire or a heat source.

- Do not operate the Wireless Trigger in a place where the temperature can be over 80 °C or below -15 °C.

- Do not immerse or wet the Wireless Trigger module.

- If battery liquid leaks onto skin or cloths, wash well with fresh water immediately.

Description of the device

The Wireless Trigger activates and de-activates the Lightguard system by sending a signal over BLE technology. By default, the Wireless Trigger works with every Lightguard system configured. Each Wireless Trigger has a unique digital identifier and can be configured to activate one or multiple Lightguard arrays. For example, a wireless trigger can be configured to activate every Lightguard array on a floor, or the entire building. In case a trigger is lost or stolen, it can be remotely de-activated.

Figure 1: Wireless Trigger

Components

Figure 2: Wireless Trigger parts

	Item	Description
1	Trigger	Trigger Button
2	Batteries	Battery holder

Table 1: Wireless Trigger part details

Getting Started

Triggering Instructions

Press the Wireless Trigger button to activate the Lightguard system. The Wireless Trigger has a beep sound and light confirmation for the button press. Make sure you press the button once and with a firm touch. In case the Wireless Trigger does not notify you, it may be that the batteries have run out (see Replacing the Batteries section). A different sound and light confirmation is played when the Lightguard system is succesfully triggered.

Operation Modes

The Lightguard system can operate in two modes: offline and online. The operation mode can be configured in the Command Module setup. By default the offline mode is configured in the factory, this mode allows any trigger to activate the Lightguard array or a preset list configured by the user in the Command Module setup. In the online mode, the Command Module is linked to the Lightguard server through the internet. In this mode, the trigger can be configured to activate one or multiple Lightguard arrays. Also, in case a trigger is lost or stolen, it can be remotely de-activated in the Lightguard setup web page.

Replacing the Batteries

1. Slide down the back cover of the Wireless Trigger to open the battery compartment cover.

2. Insert three AAA batteries into the battery compartment. Make sure that batteries are inserted in the correct orientation.

3. Insert the battery compartment cover in the back of the Wireless Trigger.

Warning: Do not mix old and new batteries. Do not mix batteries of different types.

De-activating Instructions

Press and hold the Wireless Trigger button for 5 seconds to de-activate the Lightguard system. A light and sound confirmation are played when the trigger succesfully de-activates the Lightguard system, the system will stop the flashes after 5 seconds. A Wireless Trigger is allowed to de-activate a Lightguard system, only if it is registered trigger.

Trigger Registration

The system has the option to only authorize triggers that have been registered. In this case, only triggers that are registered and associated with an array will work. To add a Wireless Trigger to the list enter to the Command Module configuration setup, a list of Wireless Triggers serial numbers (S/N) are displayed, check the S/N to be added to the allowed list, or un-check it to remove it from the allowed list. There is also the option to *allow any*. Finally click on the submit button to save the changes. If the desired Wireless Trigger S/N is not displayed, restart the Command Module, then push the Wireless Trigger button and try again, the new trigger should be listed now. Only the checked triggers will be allowed to activate and de-activate the lighting array.

Lightguard Setup web page Trigger Activation

The Lightguard setup web page is a graphical user interface and a dashboard to configure and manage the Lightguard arrays. The server has visual representations for Wireless Triggers, command, and Lighting Modules. Additionally, it allows multiple arrays to be grouped together into *Assets*. Assets are organized into hierarchical groups such as rooms, floors, buildings, etc. When a trigger signal from an unregistered Wireless Trigger arrives to a Command Module for the first time, it will be recorded an associated to the same asset the Command Module is part of. On the dashboard, the Wireless Trigger will appear alongside the Command Module that received the trigger signal. By default the trigger will be disabled, to enable it click the enable/disable switch and the trigger will be ready to activate all the Command Modules related to the same asset.
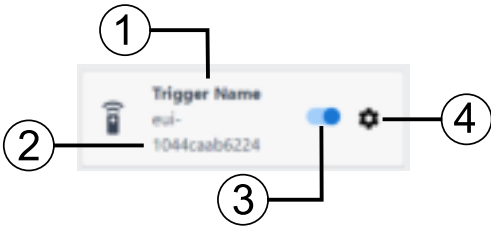

Figure 3: Wireless Trigger online representation

	Item	Description
1	Trigger name	Displays the current trigger name.
2	Serial Number	Displays the triggers serial number.
3	Enable/disable switch	Enable/disable the trigger
4	Trigger settings	Opens the trigger settings dialog.

Table 2: Wireless Trigger online representation details

Troubleshooting

The trigger does not activate a Lightguard array.

1. The trigger is not registered to the Command Module. Please register the trigger to the Command Module configuration service, following the instructions described in section Command Module Trigger Registration.

2. Batteries need to be replaced (see Replacing the Batteries section).

Regulatory Information

FCC ID: 2A9AAWT01

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.

Changes or modifications made to this equipment not expressly approved by (Lightguard LLC) may void the FCC authorization to operate this equipment.

Version	Date	Author	Rationale
1.0	05/03/23	Tech Team	First release