

Keiron PRO LED Flasher Introduction

The Keiron PRO LED Flasher provides a method to convert some event on the Keiron PRO network to a flashing light. When activated, 2 bright LEDs on the front panel strobe on and off with increasing frequency for approximately 4.5 seconds. After flashing, the unit then pauses, doing nothing for a “reset period”. After this the system resets and is ready to flash the LED again when activated. This pause / reset period prevents multiple activations when “double tapping” a target, and may be programmed using a PRO Timer. (default 30 seconds).

The LED Flasher may be linked with any compatible Keiron PRO network device, such as a target, or motion detector.

Advanced settings (such as channel selection, auto-power off settings) are performed by remote command, typically by using a PRO Timer. This allows for fast set up time when changing a range layout, or reconfiguring a system.

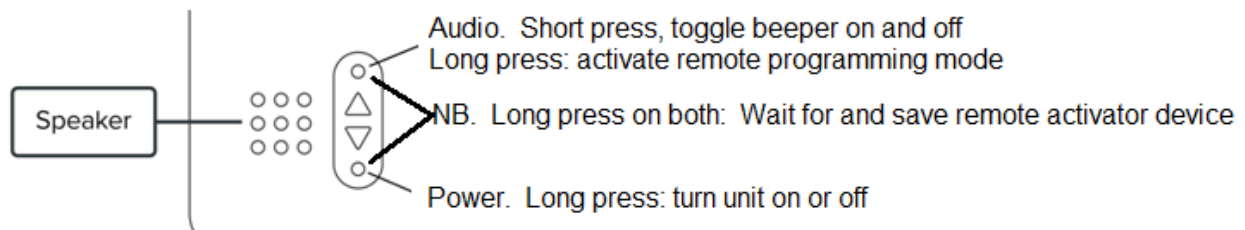
Guidelines on Placement

This device may be placed either directly facing the user, or also used to illuminate a reflective surface, for example a wall or ceiling. Be careful NOT to point the LEDs at Keiron Targets, because the strobe effect may trigger the target as if it was shot by a laser.

Examples of use:

1. Placing the unit nearby a Target PRO will alert the shooter that there is a target to be engaged.
2. Placing the unit in front of and partially obscuring a Target PRO will alert the shooter that a target is to be engaged, make it more difficult to engage (smaller aiming area) and also provide a distractive element by way of a bright strobing flash.

Controls:



Operation Summary

With the LED Flasher positioned in the desired location, turn on the unit by long pressing the bottom button. After various internal system checks, the system is ready for use.

If required, set the channel to include the unit in a logical Keiron PRO system. See following sections below for more detail.

The top button may be used to toggle the beeper on and off.

If not logically connected to a Keiron PRO device to be triggered, do this now by following the pairing instruction further down below.

The unit will wait for an activation signal from a paired device. When activated, the LED will flash. After flashing, the unit will pause for the "RESET TIME". When this time expires, the unit will again wait for an activation signal.

When finished, power the unit off by long pressing the bottom button.

If a long beep followed by several short beeps are heard, then an error has occurred. The long beep alerts you to an error condition, and the number of short beeps signifies the error. . Please see the errors section for more information.

Reset time:

The reset time (or ignore time) is set remotely using the PRO Remote. After the activation cycle is complete, this reset time period will begin and while active, will cause the unit to ignore any further activation attempts. This prevents unwanted duplicate events.

Keiron PRO Wireless Network

All Keiron PRO elements forming a logical system must be configured to be on the same channel. This allows multiple systems to co-exist, and ensures reliable operation.

If required, place the LED Flasher into "REMOTE COMMAND RECEIVE" mode by long pressing the top button, and send the channel to be used from the system controller (for example a PRO Timer)

Audio Indication

A short press of the top button toggles the beeper on and off.

Pairing:

A long press of both the top and bottom buttons (1.5 seconds) puts the LED Flasher into a pairing mode.

In the pairing mode the beeper will chirp every second, indicating that the unit is waiting for an identification signal from another Keiron PRO device.

Now simply activate the other Keiron PRO device that you wish to use as the master activator unit, and the identification details will be saved. For a Keiron PRO Target, simply shoot the target and the ID of the target will be received and saved. If using a Motion Detector as the master, simply move in front of it and it will send out it's signal, and it's ID will be received and saved.

Once an identification signal is received, a long beep will be heard and the unit is ready for use. If a target is being used as the master, then each time the target is shot the LED Flasher will be activated. If a Motion Detector is being used as the master, then each time somebody walks in front of the sensor, the Motion Detector will be activated and this will activate the LED Flasher.

If an incompatible signal is received, the unit will beep error code 5.

Remote Command (Receive):

A long press of the top button (1.5 seconds) puts the LED Flasher into a "REMOTE COMMAND RECEIVE" mode. In this mode, the LED Flasher will not respond to signal from the slaved target, and will wait for a command from another Keiron PRO device (for example, a PRO Timer). The beeper will chirp every

second, indicating that the unit is waiting for a command. Once the command is received, the system will beep to acknowledge, the command will be performed and normal operation is then resumed. The REMOTE COMMAND RECEIVE mode may be cancelled by any button press.

Use this feature to set the active radio channel, the automatic power off idle period and the reset time. See Keiron PRO Timer for more information on sending commands to the LED Flasher.

Information Broadcast:

The LED Flasher Actuator broadcasts it's status when inserting batteries or when turning on. The serial number, battery voltage, software revision, active time and reset time is sent and may be displayed on a PRO Timer.

Power ON:

A long press on the bottom POWER button turns the unit ON. When turning on, the unit performs a self test, then will briefly flash the LEDs and beep several times to signify turning on.

Power OFF:

A long press on the bottom POWER button turns the unit OFF. A single beep while holding down the bottom button signifies shutting down.

By default, the unit will turn itself off after 1 hour of no activity. The automatic turn off period may be set from 1 hour to 12 hours, via a remote command from (for example) a PRO Timer.

Other:

There is no command associated with a short press on the bottom button, or a press of both buttons.

Transmit Power:

There is no manual setting for this, as the Keiron PRO wireless radio protocol automatically adjusts the power output for best battery life and reliable operation.

ERRORS:

Any errors that may occur are reported by beeping and flashing. To draw attention to the error, a long beep followed by a pause is first issued to alert the user to a problem, then the error code is beeped. This allows the user to take note that an error has occurred, and then count the beeps.

1 long beep: Power save timeout (turning off). After the set period of no activity elapses (default 1 hour), the unit will turn off to conserve power.

3 beeps: Battery low. When the 2 x AA batteries are depleted, the unit will turn itself off, both to prevent erratic operation and also to protect the unit from electrolyte leaks. (batteries leak when flat). Remove the batteries as soon as possible to prevent damaging the unit.

5 beeps: Invalid activation identification received. Resend from correct device.

6 beeps: TX failure. Contact supplier.

7 beeps: Radio fail (dead radio). Contact supplier.

8 beeps: Radio fail (alive, but unserviceable). Contact supplier.

9 beeps: Voltage regulation circuit unserviceable. Contact supplier.

10 beeps: Voltage regulation circuit unserviceable (over voltage). Contact supplier.

Known bugs:

None