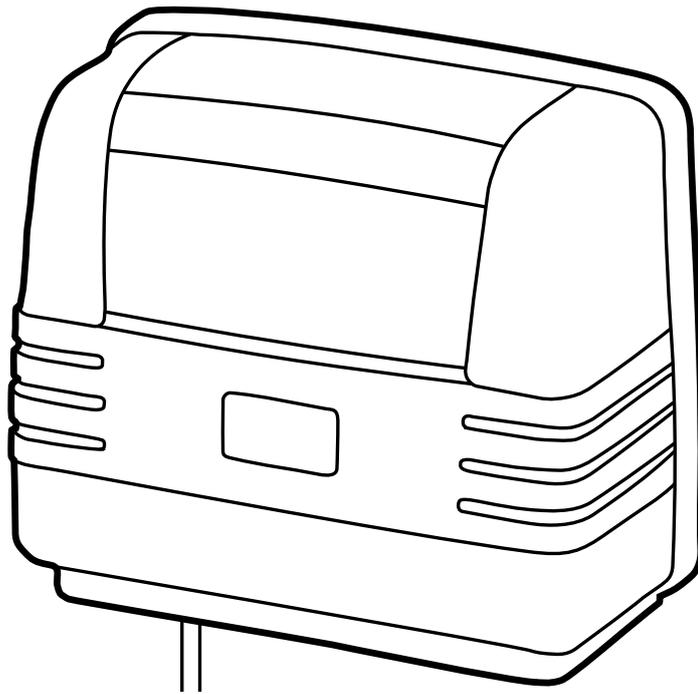# ASTRALPOOL

INSTALLATION MANUAL

HALO® LITE⁴™
Bluetooth® Light Controller

⚠ WARNING

FOR YOUR SAFETY - This product must be installed in accordance with AS/NZ 3000 - 2018 and any other local applicable regulations. Before installing this product, read and follow all warning notices and instructions that accompany this product. Failure to follow warning notices and instructions may result in property damage, personal injury, or death. Improper installation and/or operation will void the warranty.

Improper installation and/or operation can create unwanted electrical hazard which can cause serious injury, property damage, or death.

For full warranty terms and conditions and to register your warranty, visit *www.astralpool.com.au/warranty* and complete your details. Or scan the QR code to go directly to the registration page

Record your equipment details here for quick reference:

Model No. : _____

Serial No. : _____

EQUIPMENT INFORMATION RECORD

DATE OF INSTALLATION _____

INSTALLER INFORMATION _____

LIGHTING CONTROLLER MODEL _____

SERIAL NUMBER _____

Table of Contents

Section 1.   Important Safety Instructions

READ AND FOLLOW ALL INSTRUCTIONS

When installing and using this electrical equipment, basic safety precautions should always be followed, including the following:

⚠ WARNING

The Halo Lite[4] power supply has an IP23 rating, meaning it is suitable for installation outdoors. For safe operation the power supply must be installed in the correct orientation, with the cables leaving from the bottom of the device. If installing the power supply near the pool or spa water, you must ensure that the rules of AS3136 are followed at all times. AstralPool® strongly recommends that installation be performed by a registered pool builder, electrician or other suitably qualified person.

⚠ WARNING

Risk of electric shock - Install the controller at least 3.5 meters from the inside wall of the pool and/or hot tub using non-metallic plumbing.

⚠ WARNING

If the supply cord is damaged, it must only be replaced by AstralPool, its service agent or a similarly qualified person, in order to avoid a hazard.

The transformer is not intended for series/parallel connection.

Never connect more than one light to a single power supply outlet. Each outlet on the power supply must go to one - and one only – underwater light.

SAVE THESE INSTRUCTIONS

Section 2. System Overview

2.1 Kit Contents

The Halo Lite4 controller allows you to control your pool lights via the Halo Lite app.

Before starting, check that you have the correct parts. If any parts are missing or incorrect, please call your local distributor or technical support at 1300 186 875 for assistance.
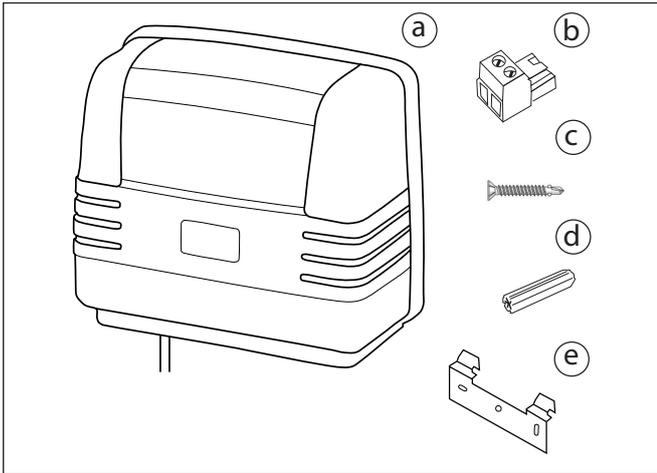

Figure 1.   Kit Contents

Halo LITE kit contents
a.   Halo Lite4 controller
b.   Low voltage light terminal plug (4)
c.   Screws 8G 3/4 (2)
d.   Masonry plug 8G 25mm (2)
e.   Mounting Bracket

Section 3. Installation

3.1 Mounting

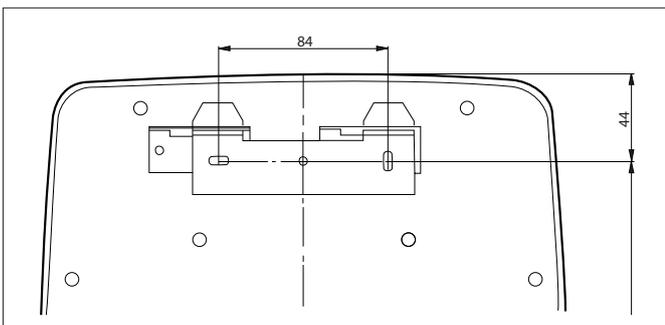The Halo Lite4 power supply mounts using a mounting bracket.

Figure 2.   Power Supply mounting bracket

1. Identify a suitable installation location.

NOTE: The distance between the Halo Lite4 controller and the app should be less than 15 meters for a reliable Bluetooth® connection.

2. Insert the (2) mounting screws into the wall 60 mm apart. Use the (2) plastic masonry plugs (provided) if mounting into masonry.
3. Hang the power supply on the mounting bracket and slide it to the right. Check that the power supply has locked into place by trying to lift it.

3.2 Power Connections

To connect your lights to the power supply:

1. Insert light cable wires into the green terminal plug. Wires can go into either socket, there is no polarity.
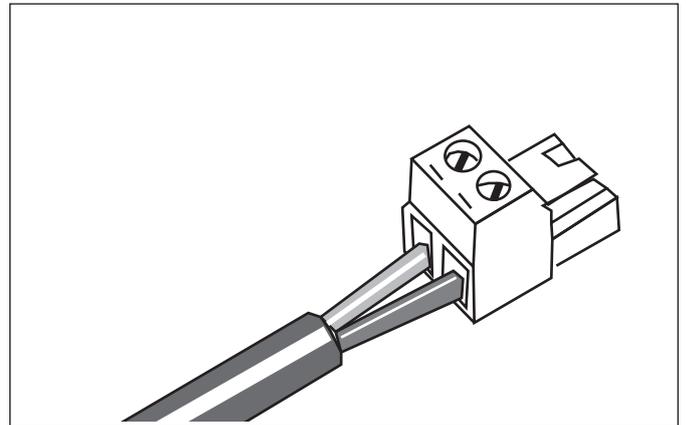2. Tighten screws on top to secure.

Figure 3.   Low Voltage Light Terminal Plug

3. Insert each green connector into the bottom of the Halo Lite4 controller in any available position.
4. Plug the Halo Lite4 controller mains cable into a mains outlet to power on.
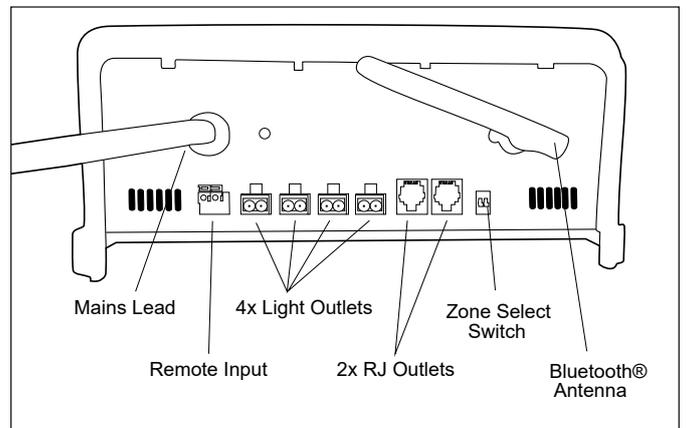

Figure 4.   Power Connector

Section 4. Controlling Lights via a Mobile App

If your Halo Lite[4] is paired to a Halo Chlorinator, then mobile control of the lights must be done through the Halo Chlor app. (See the Halo Chlorinator Instructions for information on the Halo Chlor app.)

If your Halo Lite[4] isn't paired to a Halo Chlorinator, then mobile control of the lights is through the Halo Lite app. (See the following instructions for information regarding the Halo Lite app.)

4.1 Pairing to the Halo Lite app

Halo Lite[4] controllers are controlled through the Halo Lite app. The app can be loaded onto multiple mobile devices, however you can only pair one device at a time. You will need to re-pair if changing devices.

To pair your mobile device to the Halo Lite[4] controller for the first time:

1. Download the Halo Lite app from the appropriate app store:

2. Enable Bluetooth® and location services before connecting the Halo Lite[4] controller to your mobile device.
3. Open the Halo Lite app.
4. Turn off main power to the Halo Lite[4] controller. (If you have multiple Halo Lite[4] controllers, turn them all off.)
5. Turn the main power back on and within 30 seconds, tap + on the app front screen. If more than 30 seconds elapses, follow the instructions in the app to turn the Halo Lite[4] controller off for at least 10 seconds then back on again.
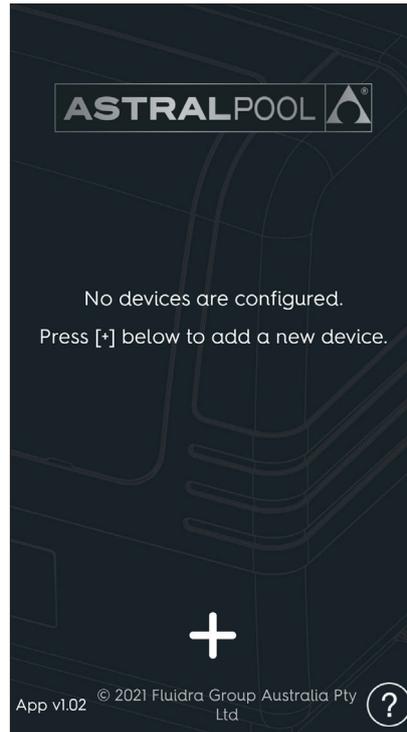

6. The new Halo Lite[4] controller will be listed under "Add Devices" in red type indicating it is ready to pair to.

NOTE: If no Halo Lite[4] controllers are ready to pair to, turn the power off for at least 10 seconds, then turn it back on.

7. Tap the device with the red type to begin pairing.
8. When pairing is complete, the device is now listed under "Connected Devices".
9. Tap the "Devices" back arrow to return to the front screen.
10. Your Halo Lite[4] controller now shows on the app front screen with the default name "Pool".

11. Tap "Pool" to connect to the Halo Lite4 controller and operate your lights from within the app.
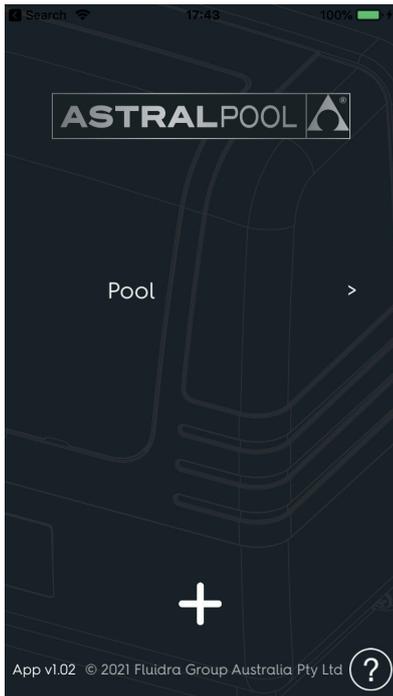

NOTE: If you have multiple Halo Lite4 controllers, repeat the steps to pair and name each one as a separate device. They will all appear on the home screen.

4.2   Configuration and Setup

Configuration settings are stored within the Halo Lite4 controller and all configurations are performed via the Halo Lite app.

To configure the Halo Lite4 controller:

1. Tap the "Settings" icon from the home screen (bottom left of screen).
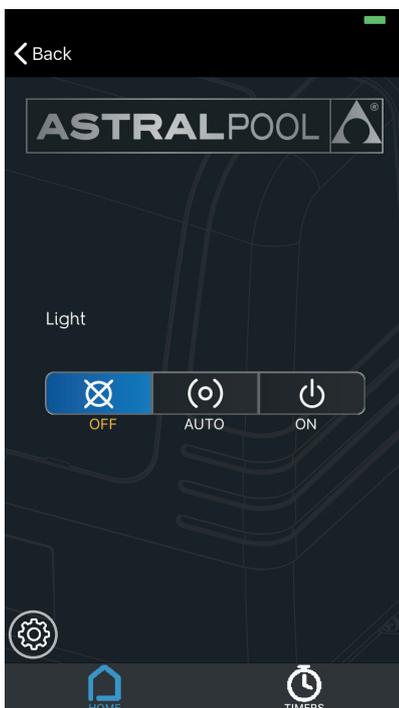
2. Tap "Date and Time" to use date and time settings from your phone (preferred) or set the current date and time manually.
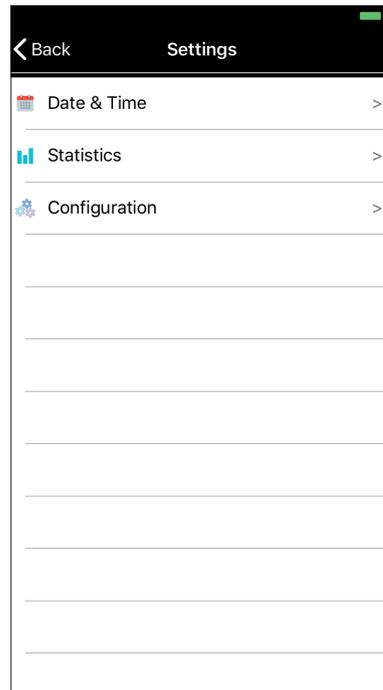
3. Tap "Configuration" to set the "Light Type".
   Light types are:-
   - Single colour lights
   - AstralPool® SLX/FLX
   - Zodiac® Lumipower
   - Spa Electrics (Standard Multi Mode)

NOTE: For colour lights, if the "Light Type" has been set incorrectly, you will not be able to control the light colours correctly.

4. Choose a name for the light controller (or rename if it's already set up).

NOTE: If you have multiple Halo Lite4 controllers, repeat the steps to configure them individually. They will appear as separate devices on the front screen.
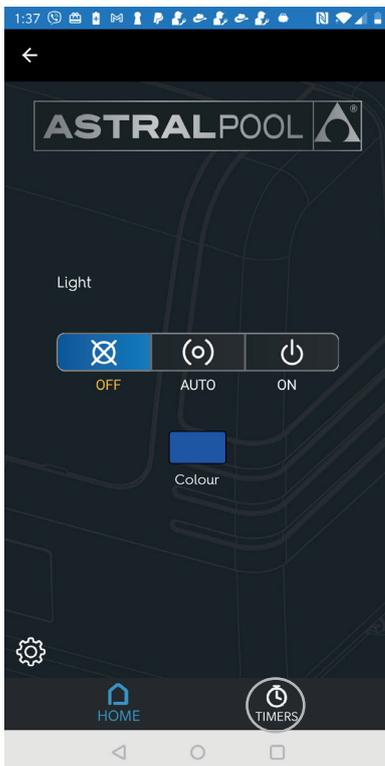
4.3 Controlling Lights from the App

To control lights after pairing and setup:

1. Tap the name of the lights from the front screen (there may be more than one light controller installed).
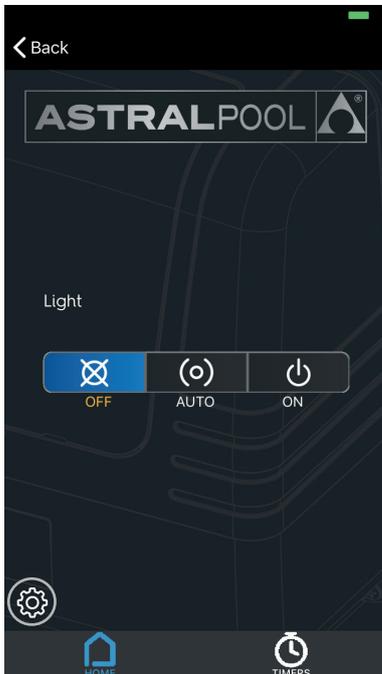
2. The control settings are displayed on the home screen. Lights can be set to off, on, or auto modes.

NOTE: Auto mode is only available if a timer has been set.

If multi colour lights are installed, colours may also be changed from this screen.

3. Tap "TIMERS" at the bottom of the screen to set up to two different light timers.
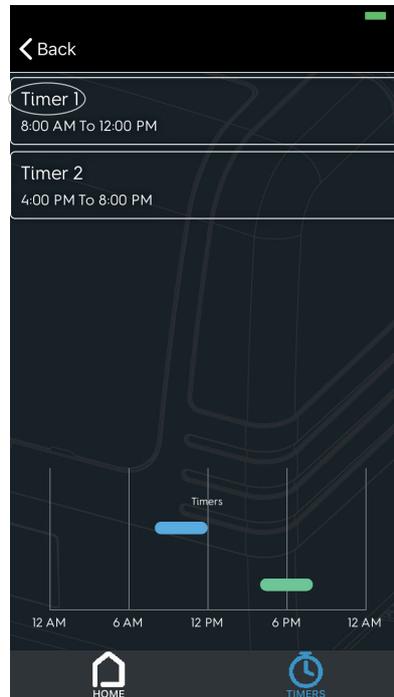
4. Tap "Timer 1" to configure or change timer settings on the "Edit Timer" screen.

5. Ensure that the timer is "Active", then adjust start and stop times for timer 1 by scrolling.

6. Repeat steps to set timer 2.

Section 5.   Connection to Viron Connect (Connect 10)

Halo Lite4 controllers can be connected to Viron Connect systems using an RJ12 cable from the Viron Connect plugged into either of the RJ12 connectors in the base of the unit.
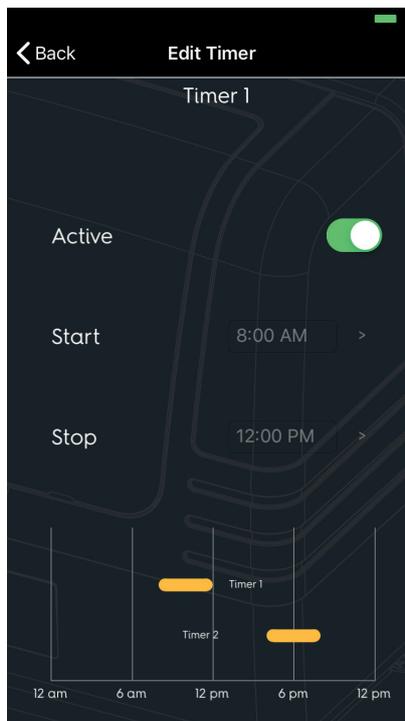
If a Viron Connect touchscreen is connected into the system, the touchscreen will take over control of the system, i.e., use the touchscreen's in-built timers to control the system and control the Halo Lite4 through the RJ12 cable. (The Halo Lite4 controllers are plugged directly into the mains power.)

The Halo Lite app cannot be used to control the lights in this mode.

The touchscreen can control two zones of lighting.

If you have more than one Halo Lite4 in the system and If two zones of lighting are required, then dipswitch 1 should be set to ON on the Halo Lite4 that is being used for Zone 2. (Dipswitch 1 OFF implies Zone 1.)

Up to five Halo Lite4 controllers in each zone can be connected to a Viron Connect system. You can control up to 20 lights connected via the RJ12 connection and powered individually.
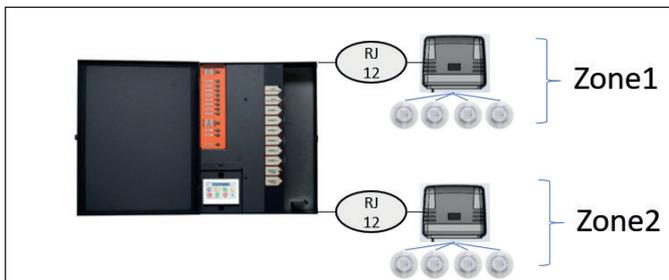

Figure 5.   Connecting Multiple Halo Lite4 controllers

Section 6.   Connection to AstralPool® Chlorinators

6.1   Connection to a Halo Chlor Chlorinator

A total of two (2) Halo Lite connectors can be connected wirelessly to a Halo Chlorinator. (Two Halo Lite2 connectors, or two Halo Lite4 connectors, or one of each.) If a Halo Lite4 is connected wirelessly, up to 4 more Halo Lite4 connectors can be connected to it via RJ12 cables.

To pair a Halo Lite4 to a Halo Chlorinator:

1.   Press the "Settings" icon (in the lower left corner) on the "HOME" page on the chlorinator.
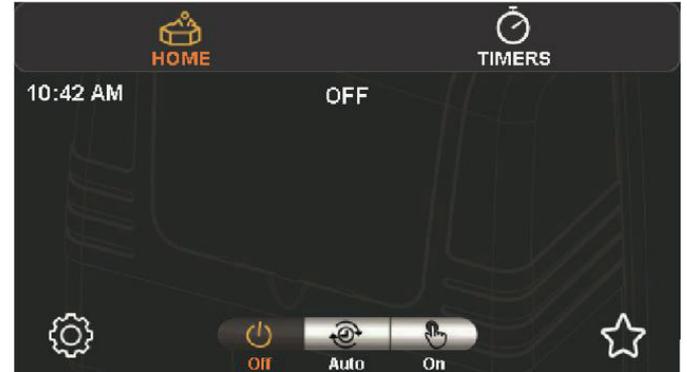
2.   Press the "INSTALL" icon in the top ribbon of the "Settings" page of the chlorinator.
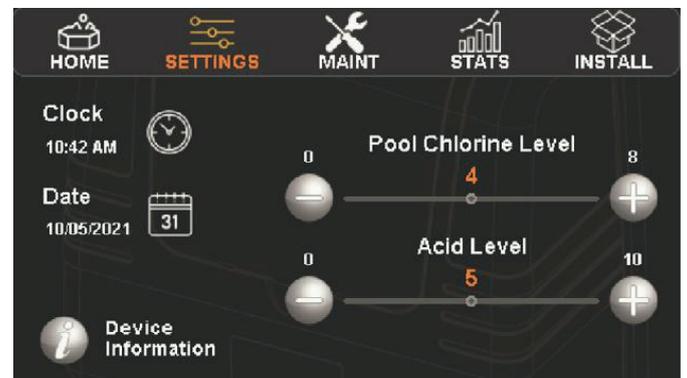
3.   Press "Add/Remove" in the "Equipment Configuration" area on the install page (lower left corner).

The list of "Connected Devices" shows devices that can be connected to the Halo Chlorinator. These are shown with the "+" symbol to the right of the device name. In this case, press the "+" symbol on the "Halo Lite or Lite⁴" icon.

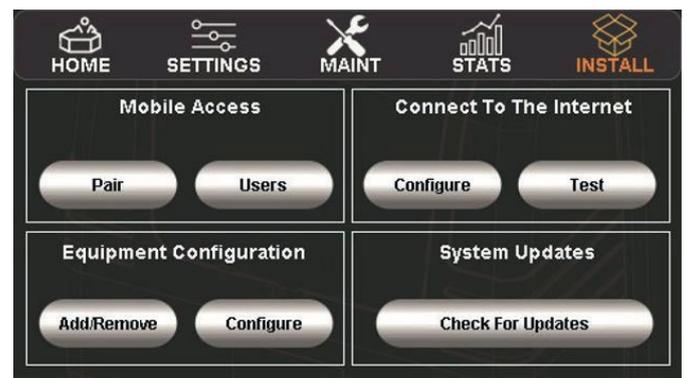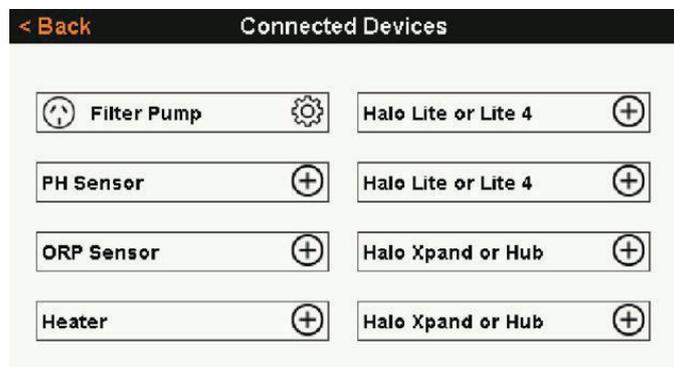Follow the prompts, turn off the power to the Halo Lite⁴ for 3 seconds, then turn it back on. If the signal strength is strong enough pairing will be automatic.

Once the Halo Lite⁴ has been found, press "Save" to complete the pairing. After pairing, the signal strength is shown as a bar graph in the connected devices view: A signal of 2 "bars" or better is desirable for robust connections. If the signal displays 1 bar, consider moving the device closer to the Halo Chlorinator.

On the next screen, you can choose how many zones you want to configure in your system. (Zones can also be added latter in the lighting configuration screen.)

To configure the lights, use the "Back" button to go back to the install screen and press "Configure" in the "Equipment Configuration" area on the install page (lower left corner). Pressing "Lights" then takes you to the "Lighting Configuration" page.

On this page you can choose the light type that you wish to use (SLX/FLX, LumiPower, Spa Electrics or Single Colour).

NOTE: All of the lights in the system need to be set to the same type, however you can nominate individual zones to not be "multicolour".

You can also add or remove lighting zones and also name the zones (by pressing on the existing name and choosing a new name from the list).

6.2　　Connect to Viron or eQ Chlorinators

If SLX / FLX or Spa Electric lights are being used, Halo Lite⁴ controllers can be connected to AstralPool®, Viron and EQ Chlorinators (chlorinator software version 4.0 and above) using an RJ12 cable from the Viron/EQ Chlorinator plugged into either of the RJ12 connectors in the base of the unit. In this configuration, the chlorinator timers can be used to turn the lights on and off automatically.

The Halo Lite app cannot be used to control the lights in this mode, however it must be used to set the light type to SLX or Spa Electrics before the RJ12 cable is connected. If a light is being connected to the chlorinators light output connector as well as the Halo Lite⁴, only SLX/FLX lights can be used. After the RJ12 cable is connected, the ChlorinatorGo app can be used to control the lights.

Refer to your Viron or EQ Chlorinator user instructions for full details. The following list is a quick guide. Operation is the same as in Connect Lites.

1. Ensure that your Viron or EQ Chlorinator is installed with "Timer Enabled", "Light Enabled" and "Light Type SLX".
2. Using the standard "TIMER" settings on the chlorinator you can set the timer "Start" and "Run for X Hours". Next, set the desired pump operation. Set the required speed (if a Viron pump is fitted), or set the pump to off if only the lights are required.
3. Next, set the desired state for the light. If you require the light to be on during this timer period, set the light state to be auto, otherwise set it to be off.
4. Complete the timer configuration by confirming the "Manual On" speed and exit the timer menu.

If lights are enabled during installation, the lights can be controlled from the main screen of the chlorinator. Pressing the "LIGHT" button on the main screen will bring up an option to turn the lights to "On" or "Off" or "Auto".

The chlorinator needs to be set to auto mode for the lights to operate in auto mode, i.e., if the chlorinator is set to "Manual Off", the light auto function is ignored and the lights will not come on automatically.

If no timers are set to control the lights, the "Auto" function will not appear as an option on the chlorinator.

The chlorinator can control 2 zones of lighting. Switch 1 on the "Zone Select Switch" is used to select either Zone 1 or Zone 2. If switch 1 is set to "On" the Halo Lite⁴ is assigned to Zone 2 (Switch 2 has no function). If

two or more units are required to be controlled by the chlorinator, the second unit can be connected to the first unit via an RJ12 cable.
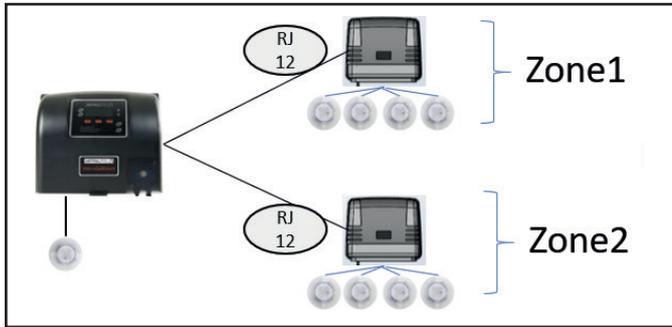

Figure 6.   RJ12 Cable Connection

Section 7.   Connecting Multiple Halo Lite⁴ Controllers

Up to five Halo Lite⁴ controllers can be connected together using RJ12 cables between each Halo Lite⁴.

In this mode, the app (or Halo Chlorinator) is used to pair to one of the Halo Lite⁴ controllers and then communicates to the others using the RJ12 cables.

To simplify this pairing process, turn the power off to all the other Halo Lite⁴ controllers and pair the app to the Halo Lite⁴ that you want to control and then turn the other Halo Lite⁴ controllers back on.

Only one zone of lighting is available for all lights connected in this manner. Dipswitch 1 does not function in this mode of operation.

Section 8.   Remote Input

There is a single connection for home automation or external switching. This input can only be used in stand alone mode and does not work if the Halo Lite⁴ is paired to a Halo Chlorinator.

This connector can be wired to a switch inside of the house, beside the pool or to a dry relay contact of a home automation system. When the switch or relay is closed, the lights will be on. When the switch or relay is opened, the lights will be off.

In this mode, the app can be used to pair to the Halo Lite⁴ and the app can override the external switch connection. If the switch is open (i.e. lights are off), the app can be used to turn the lights on. This override function of the app will be reset the next time the external switch is closed/opened.

If the switch is closed (i.e., the lights are on), the app can be used to turn the lights off. This override function of the app will be reset the next time the external switch is closed/opened.

The app can be used to select the light "type" and to set or change the light colours.

Typically, timers would not be used in systems that use this remote input as the activation of the remote input will change the state of the controller from auto mode to manual mode.

This external switch is only functional if there are no other AstralPool® products plugged into either of the two RJ 12 connectors. If an AstralPool product is plugged into either RJ 12 connector the external switch connector is ignored and has no function.

Section 9.   Using Halo Lite⁴ to Replace a "Connect Lite"

Halo Lite⁴ connectors are intended to be drop in replacements for Connect Lites. The main difference is the change to app control instead of RF remote control.

If an existing system has a Connect Lite connected via RJ12 cable, then a Halo Lite⁴ can replace it. If you have two or more Connect Lites in a system and need to add another (or one fails), you can use a Halo Lite⁴. In this instance you can choose to keep using your RF remote (paired to a Connect Lite) or use the Halo Lite app (paired to the Halo Lite⁴), or use both the RF and the app.

Section 10. How to Un-pair a Halo Lite⁴

If a Halo Lite⁴ is connected via RJ12 cables to a Viron Connect or Viron/EQ Chlorinator, the unit will stay in this mode and the Halo Lite app can't be used.

1. To revert back to "out of the box" mode, disconnect any RJ12 cables and turn the mains power off to the unit for 5 seconds before turning back on.

To remove a previously paired Halo Lite⁴ controller from the Halo Lite app:

1. From the home screen:

    a. For Apple® phones, press and hold the name of the paired device that you wish to remove and then swipe left to reveal the delete button.
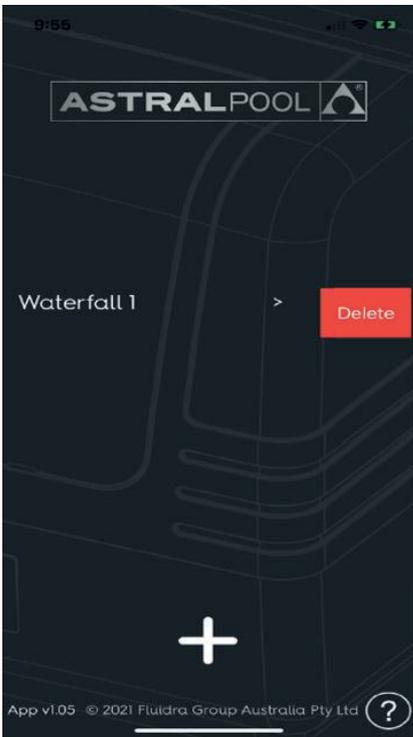

Figure 7.   Delete for Apple

    b. For Android™ phones, press and hold the name of the paired device that you wish to remove to reveal the delete button.
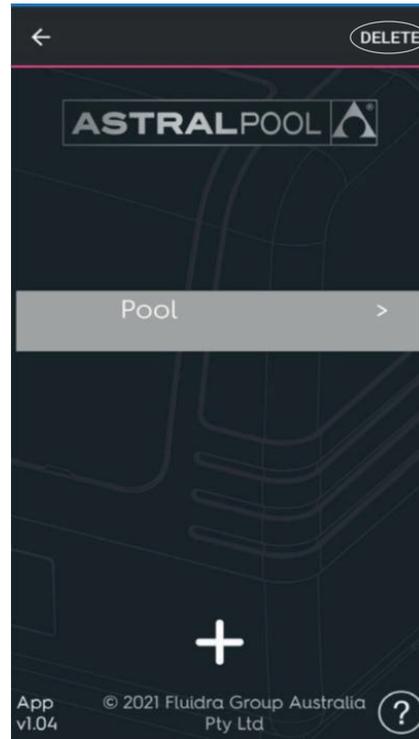

Figure 8.   Delete for Android

2. When the delete option is displayed, tap to unpair the controller.

Section 11. Regular Maintenance

The controller is vented to allow the electronics to cool during extreme warm temperatures. During cooler months, ants and other insects can be attracted to the warm, dry environment inside the enclosure.

1. Turn main power off.
2. Spray a surface insecticide on the surfaces surrounding the controller.
3. Wait for the spray excess to dry prior to turning power back on.
4. Repeat every three months or as necessary.

Section 12. Troubleshooting

PROBLEM	SOLUTION
Colour button is missing from the home screen	• Refer to the "Configuration and Setup" section. • Ensure Support Multi Colour is enabled.
Lights don't change to correct colour	• Tap the "Colour" button on the front screen, then tap "Sync Current Colour". • If this doesn't correct the problem, refer to the "Configuration and Setup" section. Ensure the "Light Type" selected matches the type of light in your pool.
Auto button is missing from the Home screen	• The "Auto" button will only appear on the front screen if at least one timer is set to active. • Refer to the "Configuration and Setup" section for how to set timers.
App won't connect to Halo Lite4 controller	• Make sure Bluetooth® and locations services are enabled on your mobile device. • Check that you are in range of your Halo Lite4 controller. • Make sure the Halo Lite4 controller is connected and powered on. • Make sure Bluetooth® permission for the Halo Lite app is on. • Turn the power to the Halo Lite4 controller off for at least 10 seconds, then turn power back on.

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