Aurora Lighting AOne Bluetooth Technical Document

Table of Contents

Table of Contents 1

Pre-purchase FAQ 4

What is the Aurora AOne Connect.Control(Bluetooth) System? 4

Multiple Benefits With Immediate, Easy Smart Setup 5

Easy To Install No Hub (4.2 mesh) 5

No App Required For Immediate Control 5

Set Scenes And Schedules With Multiple Features 5

Simple Usage With Local Control 5

Easy to Install, No Hub Required 6

Level 1 Starter Kits 6

Level 2 Additional Devices 6

Level 3 Dedicated Remotes 6

Level 4 App Control 6

Connect.Control Products 7

Connect.Control Starter Kits 9

What do I need to have before I can start using the AOne™ Connect.Control Smart Lighting System? 10

Is the AOne system an energy efficient solution for my home? 10

Can I use AOne Connect.Control Devices without a Hub? 10

Can I use the AOne system outdoors? 10

Can I use my light switch on the wall? 10

What does 'Smart Inside' mean? 10

What happens to my AOne Smart Lighting following a power cut? 11

Can Multiple Users Connect to the Same AOne Smart Lighting System? 11

What is the Signal Range of the AOne Connect.Control System (App & Devices)? 11

Are the AOne Connect.Control Devices waterproof? 11

What Smartphones are supported by the AOne system? 12

Why doesn't a product from another brand work with the AOne Connect.Control system? 12

How many AOne Connect.Control Devices I can have connected to my Mesh? 12

Security 12

How do I know Aurora smart products are safe for use in my home? 12

Connection / Offline Control 12

Can the AOne System work without an Internet connection? 12

Voice Control 12

Is Voice Control supported by the AOne System? 12

Aurora Smart Installer Program 13

An Introduction to Smart Lighting 13

The Widest Range of Lighting, Control and Sensing Products 13

Understanding Bluetooth Low Energy 13

Commissioning System 13

The Commissioning Process (Out of the Box): 13

Troubleshooting 14

Possible Errors You May Encounter 14

Device not appearing on App 14

Device not responding to commands 14

Device not displaying certain colours 14

Commissioning Devices 14

The Commissioning Process (Private Account): 14

Top Tips for Success: 14

Troubleshooting Devices **15**

Possible Errors You May Encounter: 15

Lights Did Not Flash 15

Laggy / Unresponsive Device 15

Post-purchase FAQ **15**

Ratings and Feedback of our Apps 15

How can I request for a feature to be added to the App? 15

Warranty Requirements 16

Getting Started **16**

Where do I download the App? 16

How do I create a Private Account? 16

How do I reset my Password? 17

How do I reset my Username? 17

How do I delete an Account? 17

Can I pair multiple Phones to my account? 17

Software Updates **17**

Why do I need to keep my system up to date with software updates? 17

General Information **18**

Can Lamps be used with IP Rated/Outside fittings? 18

Can you control the AOne System from a computer? 18

Does the AOne app influence other programs on my mobile phone? 18

Do I need to keep my phone on and logged in to my application all the time to keep my System running? 18

What does OTA mean? 18

Is Power Draw Monitoring available in the App? 18

Which Devices support Schedules? 19

What Third Party Platforms are compatible with the AOne System? 19

Specifying AOne **20**

Devices **20**

Lamps 20

Remotes/Dimmers 20

LED Strip 20

Placement / External Factors **21**

Tips for installing the AOne system 21

There is no standard installation! All installations are unique 22

Device location is important 23

Cable Trays 24

Usability **25**

System/App 25

Limits 25

Device 25

Phone 25

Aurora BLE App **26**

Getting Started with the Aurora BLE App 26

Welcome Tutorial 26

Settings Tutorial 29

Accounts Menu 31

Lights Tutorial 32

What is a Room 33

How many rooms can be created? 33

How to create a Room 33

Pairing Instructions **33**
How to pair a Device 33
Lights **33**
Lamp 33
LED Strip 33
Switches **33**
Battery Dimmer 34
Battery Remote 34
How to rename Devices 34
How to move a Device to another room (Unassign) 34
What is a Scene 34
How to configure a Scene 35
What is a Schedule 35
How to configure a Schedule 35

User Management **35**
How do I share access to my AOne System with other users? 35

Troubleshooting **36**
What are the factory default settings? 36
I have set up my own password now I can't see any of the Connect.Control devices 36
Can you use the remote to control individual rooms separately? 36
Why do I have to use the factory default login details? 36
Can I change my password for the factory setting password? 36
What are the Colours for the 5 Remote Buttons? 37
I can't see my Bluetooth devices 37
I no longer can find my Bluetooth devices / 37
I keep receiving a "Login Fail" message when logging in 37
How many users can concurrently use the app? 37
What happens if power is lost to the system, are all of my settings lost? 37
How do I control my lights when I'm away? 38
Are the Bluetooth devices compatible with my existing dimmer switches? 38
How do I tune the colour for all of the lights in a group at once? I want the colour and dimming levels to be synchronised 38
What do the "All, Area, Device" buttons do at the top of the Devices page? 38
AOne App crashing on Android Device 38
AOne App crashing on iPhone 39
How to Reboot Bluetooth Mesh 39
How to OTA Battery Remote 40

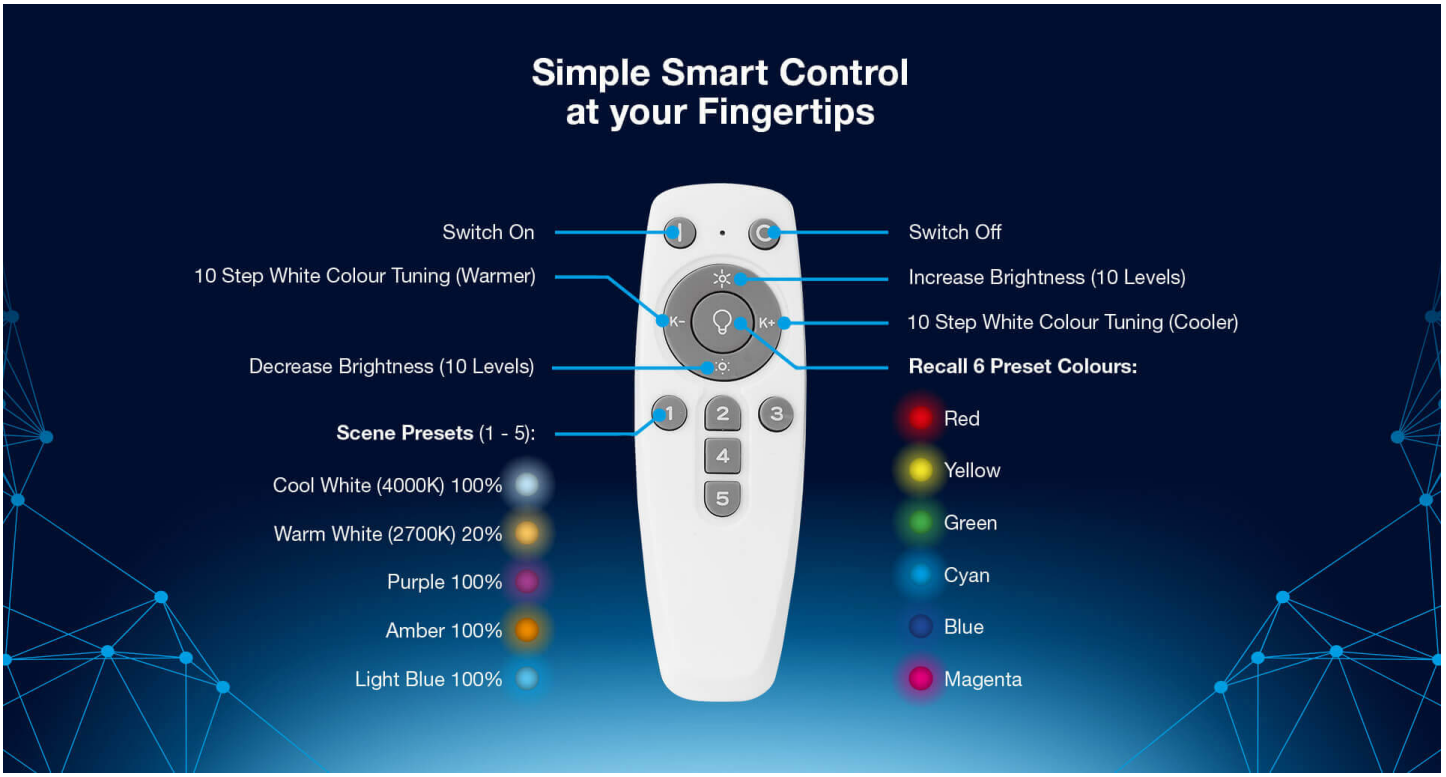
How do I contact AOne customer support? **40**

Pre-purchase FAQ

What is the Aurora AOne Connect.Control(Bluetooth) System?

Connect.Control is our new intuitive Bluetooth wireless lighting range - the easiest way to begin your smart lighting journey.

Simply connect your light fittings, turn on the remote and take control of your lights straight out of the box. You don't even need to download the app. Recall six RGB colours, trigger five pre-programmed scenes, set brightness or adjust colour temperature from warm to cool.



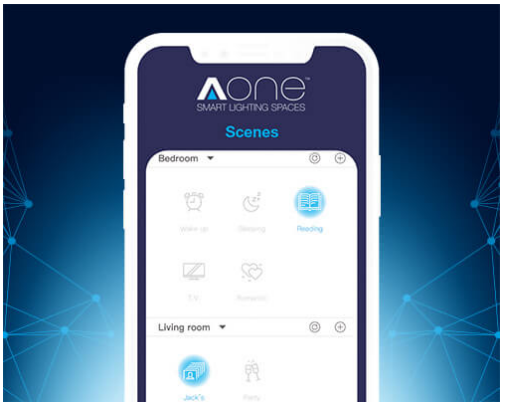
Multiple Benefits With Immediate, Easy Smart Setup

Easy To Install No Hub (4.2 mesh)

The easiest way to start your smart lighting journey where no hub is required & a 3 year warranty is provided.

No App Required For Immediate Control

Simply connect light fittings, turn on the remote and control lights straight out of the box - no need to download the app.



Set Scenes And Schedules With Multiple Features

App Control is available by downloading the Aurora BLE App to adjust the scenes or create schedules.

Simple Usage With Local Control

Don't need advanced features of a hub-based system like voice control, sensors and control away from home? This is a great place to start.

Easy to Install, No Hub Required

Level 1 Starter Kits

Smarten one room with feature lighting

Level 2 Additional Devices

Add more lights for simultaneous remote control

Level 3 Dedicated Remotes

Control lights in multiple rooms or outdoors with separate remotes

Download on the App Store GET IT ON Google Play

Level 4 App Control

Edit Scenes, create Schedules and access Music Mode

Connect.Control Products

AU-A1BTGBCWK
(B22) Fitting

AU-A1BTGECWK
(E27) Fitting

AONE™ CONNECT.CONTROL™ 8W BLUETOOTH RGB+TUNEABLE WHITE GLS LED LAMP

- RGBCX Colour Tunable between 2700-5000K
- Smart control straight out of the box using a remote control
- No Hub required
- Recall 6 RGB colours
- Trigger 5 pre programmed scenes
- Adjust the colour temperature between warm and cool
- Upgrade path available for smart phone and tablet control
- L70 25,000hrs
- 3 Year Warranty

AU-A1BTGUCW

AONE™ CONNECT.CONTROL™ 5W RGB+TUNEABLE WHITE GU10 LAMP

- RGBCX Colour Tunable between 2700-5000K
- Recall 6 RGB colours
- Trigger 5 pre programmed scenes
- Adjust the colour temperature between warm and cool
- L70 25,000hrs
- 3 Year Warranty

AU-A1BTE14CW

AONE™ CONNECT.CONTROL™ RGB+TUNEABLE WHITE E14 CANDLE

- RGB + Tuneable White colour temp between 2700-5000K
- 5-100% dimming range
- 180° beam angle
- Ability to be controlled individually or within a space
- Can be used in scenes, schedules & music mode via the app
- Works directly with the Aurora BLE App , the connect.control™ remote control AU-A1BTRC1 and battery dimmer AU-A1BTR2GW
- 3 Year Warranty

AU-A1BTD10CW

AONE™ CONNECT.CONTROL™ 10W RGB+TUNEABLE WHITE DOWNLIGHT

- 5-100% dimming range
- RGB + tuneable white colour temp between 2700-5000K
- 100° beam angle
- Opaque TP(b) rated diffuser
- Ability to be controlled individually or within a space
- Can be used in scenes, schedules & music mode via the app
- Works directly with the Aurora BLE App and the connect.control remote control AU-A1BTRC1 or battery dimmer AU-A1BTR2GW
- 3 Year Warranty

AU-A1BTCWS

AONE™ CONNECT.CONTROL™ STRIP ADDITION PACK

- AU-A1BTCWS2M - 2m Strip Addition Pack
- AU-A1BTCWS3M - 3m Strip Addition Pack
- 3 Year Warranty

 AU-A1BTRC1	**AONE™ CONNECT.CONTROL™ BLUETOOTH REMOTE** ● Single remote for use with the connect.control starter kits ● No hub required ● Recall 6 RGB colours ● Trigger 5 pre programmed scenes ● Adjust the colour temperature between warm and cool ● Upgrade path available for smart phone and tablet control ● 3 Years Warranty
 AU-A1BTRC1	**AONE™ CONNECT.CONTROL™ TWO GANG WIRELESS BATTERY DIMMER** ● Control Bluetooth lighting by replacing existing light switches ● Battery-powered so no wiring required ● Same function as the connect.control remote control ● Battery dimmer controls 1 group of lights ● Left side of the dimmer offers the dimming function ● Right side of the dimmer allows you to adjust colour temp ● Secondary function allows you to scroll through 6 RGB colours on left dimmer and the 5 preset scenes on the right dimmer ● Surface mount patress included ● 2x AA batteries included ● 3 Year Warranty
 AU-A1BTSP	**AONE™ CONNECT.CONTROL™ SPLITTER CABLE FOR STRIP ADDITION PACKS** ● Enables additional lengths of strip (up to 3)

Connect.Control Starter Kits

AU-A1BTGBCWK
(B22) Fitting

AU-A1BTGECWK
(E27) Fitting

AONE™ CONNECT.CONTROL™ X2 RGB+TUNEABLE WHITE GLS LAMP STARTER KIT

- RGBCX Colour Tuneable between 2700-5000K
- Smart control straight out of the box using a remote control
- No hub required
- Recall 6 RGB colours
- Trigger 5 pre programmed scenes
- Adjust the colour temperature between warm and cool
- Upgrade path available for smart phone and tablet control
- L70 25,000hrs
- 3 Year Warranty

AU-A1BTGUCWK

AONE™ CONNECT.CONTROL™ X4 RGB+TUNEABLE WHITE GU10 LAMP STARTER KIT

- RGBCX Colour Tuneable between 2700-5000K
- Smart control straight out of the box using a remote control
- No hub required
- Recall 6 RGB colours
- Trigger 5 pre programmed scenes
- Adjust the colour temperature between warm and cool
- Upgrade path available for smart phone and tablet control
- L70 25,000hrs
- 3 Year Warranty

AU-A1BTCWSK
5M Kit

AU-A1BTCWSK4
3M Kit

AONE™ CONNECT.CONTROL™ 5M OR 3M RGB+TUNEABLE WHITE LED STRIP STARTER KIT

- 5m OR 3m RGB + tunable white LED strip, control colour temperature between 2700-5000K
- 5-100% dimming range
- 120° beam angle
- Cut points every 167mm
- Can be used in scenes, schedules & music mode via the app
- Works directly with the Aurora BLE App and the connect.control remote control AU-A1BTRC1 or battery dimmer AU-A1BTR2GW
- 3 Year Warranty

What do I need to have before I can start using the AOne™ Connect.Control Smart Lighting System?

To use the AOne™Connect.Control lighting system you will need:

1. The correct products for your current lighting circuits.
2. The correct Lamps for your current Light fixtures.
3. Checking that the Devices are compatible with one another and other existing products installed.
4. A Remote or Wireless Dimmer
5. (Optional)An iPhone / iPad OR an Android smartphone / Tablet. Please check which Operating System version is required by visiting the App Store page.

Is the AOne system an energy efficient solution for my home?

Yes, LED smart lighting is a big energy saver, as each lamp can use up to 80% less power at full brightness compared to traditional lamps such as CFL or Incandescent, and if you dim the lights or use a different shade of white you'll use even less, meaning you could save money in the long run.

Can I use AOne Connect.Control Devices without a Hub?

Yes, AOne Connect.Control Devices do not require a Hub to work.

Can I use the AOne system outdoors?

The AOne Connect.Control smart products are for indoor and domestic use only but can be installed in IP Rated Fittings or IP Rated Boxes, which can reduce Signal reach and Device performance so take this into account when Specifying the System.

Can I use my light switch on the wall?

Yes, whilst not recommended, you can still use your light switch on the wall, nevertheless the light dimming function will only be available from the Aurora BLE application on your phone or the Smart Remotes & Wireless Dimmers.

Turning off your Devices via a light switch will mean they will not be available on the App or be controlled by the System until they are turned back on from the light switch.

What does 'Smart Inside' mean?

Smart Inside refers to the name we have given to our Integrated Bluetooth Technology.

It means that Lamps containing this technology are individually Controllable / Addressable / Programmable regardless of the amount installed on a particular circuit.

This makes for an incredibly versatile lighting solution offering a huge amount of customization to the end-user.

What happens to my AOne Smart Lighting following a power cut?

Smart Bluetooth based luminaires default to the On state at 100% Brightness following a power cut.

This behaviour is actually an industry agreed standard for Wireless Smart Lighting Systems.
It's deemed that, for safety, it is better for all lights to come on following a power interruption but the power based products to stay off, rather than lights that are essential not powering on and creating a safety issue.
Therefore, in the event of a System failure, the lights can still be manually turned on.

Can Multiple Users Connect to the Same AOne Smart Lighting System?

Yes, multiple users can log into the system via the same login details.
A new feature we have added is allowing you to share access to the System to other users using a QR Code, found in the Share menu.

What is the Signal Range of the AOne Connect.Control System (App & Devices)?

The Aurora BLE App's range is based on the Bluetooth chip installed in your Smartphone.
Check with your phone's manufacturer for Bluetooth operating range.

The Bluetooth Signal range of the AOne Connect.Control Devices is approximately 5m - 20m (range can vary depending on external factors and obstacles in-between Devices. In order to extend the signal range of the system, each AOne Connect.Control Device acts like a range extender by relaying the Bluetooth signal.

We recommend referring to the below showing how different solid structures can affect Wireless Signals. Take this into account when specifying the System.

RF Absorption Rates by Common Materials

Material	Absorption Rate
Plasterboard/drywall	3–5 dB
Glass wall and metal frame	6 dB
Metal door	6–10 dB
Window	3 dB
Concrete wall	6–15 dB
Block wall	4–6 dB

Are the AOne Connect.Control Devices waterproof?

No. The AOne Connect.Control Devices should be kept away from direct water sprays or high humidity.

What Smartphones are supported by the AOne system?

The Aurora BLE App supports iOS and Android Devices. Please check on the App Store store what the minimum Operating System version is required to run the Aurora BLE App.

Why doesn’t a product from another brand work with the AOne Connect.Control system?

Whilst the Aurora AOne Connect.Control System is based on open technologies we are not able to ensure products from other brands are tested and fully interoperable with all of our software and hardware. For guaranteed compatibility we recommend only using Aurora AOne Connect.Control Smart products.

How many AOne Connect.Control Devices I can have connected to my Mesh?

A Mesh can handle up to 60 smart Devices (lights, controllers, switches, etc.)

Security

How do I know Aurora smart products are safe for use in my home?

All lighting products sold by Aurora strictly conform to Lighting Safety Standards, thereby ensuring the safety of all those using the products, with the added bonus of never having to be changed due to their extremely long-life and energy efficiency.

Connection / Offline Control

Can the AOne System work without an Internet connection?

Yes, your AOne Connect.Control system works all the time and doesn’t require an internet connection to use the Aurora BLE App.

Voice Control

Is Voice Control supported by the AOne System?

No, Voice Control is currently not supported.

Aurora Smart Installer Program

An Introduction to Smart Lighting

The Widest Range of Lighting, Control and Sensing Products

Aurora's innovative and vast range of 'Smart Inside' products, offer numerous options for the creation of a smart home, hospitality, retail and light commercial schemes.
Featuring the revolutionary mPro™BX colour tuneable fire rated downlight, GU10 & GLS lamps and LED Strip that wirelessly pair with each other and the Phone via the Bluetooth Low Energy protocol to form a mesh network.

Understanding Bluetooth Low Energy

Bluetooth Low Energy can be used as a Mesh technology, allowing for scalable networks of smart connected products spanning substantial ranges by use of multi-hop technology to bridge the gap between Devices and a Phone.

Reliable control of Devices through self-healing networks, meaning when a Device is powered off, the signal will reroute through an alternate product. Similarly, when the Device is powered back on, it will instantly reconnect to the mesh.

Unlike WiFi based smart systems, AOne Bluetooth products can operate side by side without impinging on your home network speed.

Commissioning System

The Commissioning Process (Out of the Box):

• Install lights into their fixtures (For optimum mesh performance, ensure Devices are within a few metres of each other)
• Turn the power on
• Install the Batteries into the Remote
• Start controlling your System
• (Optional) Download the Aurora BLE App from the Apple or Google App Stores Download on the App Store GET IT ON Google Play
• Log into the standard Connect.Control profile
•The lights will appear in your Room 1

Congratulations! Setup is Complete.

Troubleshooting

Possible Errors You May Encounter

In reality, most minor errors you may encounter and issues can be corrected simply by retying your steps. In some rare cases, some issues may require further troubleshooting:

Device not appearing on App

You can usually resolve this by putting the Device into pairing mode and using the App to finalise the pairing.

Device not responding to commands

Ensure that Devices and the Phone are in close proximity and that Battery powered Devices have working batteries installed.

Device not displaying certain colours

Firstly try resetting the Light by putting it into pairing mode.
If this does not resolve the issue it could be the product is faulty in some way and may need to be replaced.
If this is the case then contact your point of purchase regarding the next steps.

Commissioning Devices

The Commissioning Process (Private Account):

• Install smart Device in accordance with instructions
• Click '+' in the Aurora BLE App, then "Device", then "Quick Connect"
• Power up your new Device, which may flash twice (You may have to put it into pairing mode)
• Once discovered, Devices appear in the pairing screen.
• Wait until all the Devices have appeared on the App
• Select them by tapping and once all have been selected, tap "Add"
• Devices will then appear in the "Unassigned Lights" section

Device Pairing is Now Complete

Top Tips for Success:

• For best performance, commission no more than 10 Devices simultaneously
• The Bluetooth mesh has to be established. Always pair Devices closest to the Phone first, working your way outward
• When pairing several Devices, identification can take a few minutes to complete.

PATIENCE IS KEY!

Troubleshooting Devices

Possible Errors You May Encounter:

There are a number of possible issues you may encounter when pairing Bluetooth Devices, due to the nature of the technology.
Here are the most common:

Lights Did Not Flash

Lights not flashing when powered on indicates the Device was previously paired and not properly deleted. To reset, refer to the process on the leaflet included with your product. Most commonly this is 6 power off/on in a short amount of time.

Laggy / Unresponsive Device

Pairing large numbers of Devices will result in a longer time to process the action.
Larger distance of Device from the Remote or App may result in slower performance.

Post-purchase FAQ

Ratings and Feedback of our Apps

If you have any feedback regarding our Apps please do not hesitate to contact us.

To resolve any issues you may be experiencing with your System, the fastest way to do so is getting in touch.

If you are happy with the App then please leave us a rating and feedback on our App Store Pages:

iOS App:
https://apps.apple.com/gb/app/aurora-ble/id1515419984

Android App:
https://play.google.com/store/apps/details?id=com.aurora.uk.ConnectControl&hl=en_GB&gl=US

How can I request for a feature to be added to the App?

If you would like for us to look into adding a new feature to our App or bring out a new product then we would be more than happy to know! Please get in touch with us and reference “Feature Request”.

Warranty Requirements

For warranties to be valid the below is required:

- The Date of Purchase is confirmed by an official receipt issued at the time of purchase or by a bill of sale.

- The Company is promptly informed of the defect.

- The Goods have not been altered or modified in any way.

- The Goods have been installed by a qualified electrician, in accordance with the instructions provided.

- The Goods have been used in accordance with the instructions provided (i.e. not subjected to incorrect operation, misuse or connection to an unsuitable power supply).

Warranty periods vary so please check the individual product specification sheet or get in touch with us for the most up to date information.

Bluetooth

Getting Started

Where do I download the App?

You can search for Aurora BLE on your phone's App Store or use the direct links below:
iOS App:
https://apps.apple.com/gb/app/aurora-ble/id1515419984

Android App:
https://play.google.com/store/apps/details?id=com.aurora.uk.ConnectControl&hl=en_GB&gl=US

How do I create a Private Account?

1. After downloading and installing it, open the App
2. Press CREATE NEW ACCOUNT
3. Type your Name, Email and Password
4. Read and agree to our Terms & Conditions / Privacy Policy
5. You should receive an Activation Code sent to your email
6. Enter the Activation Code in the App and tap Go
7. You will then have to set up and acquire the Hub

How do I reset my Password?

If you forget your password:

- Access the Settings menu, from the top left of your screen
- Tap my Account
- Tap Change Password
- Enter the new Password, then again to confirm it
- Once happy press Save

We do not have access to any User Credentials and are unable to help with this remotely.

How do I reset my Username?

If you want to change your Username:

- Access the Settings menu, from the top left of your screen
- Tap my Account
- Tap Change Username
- Enter the new Username, then again to confirm it
- Once happy press Save

We do not have access to any User Credentials and are unable to help with this remotely.

How do I delete an Account?

Account details are only stored on the Phone and Devices so an Account cannot be deleted.
Unless details are provided to other users, no one can access your account and control your Devices.

Can I pair multiple Phones to my account?

Yes, you can have multiple Phones connected to the same account.
The best way is to have the main user account share Account Details with the other users using the QR Code Share feature.

Software Updates

Why do I need to keep my system up to date with software updates?

You need to update your System and App in order to have the latest security updates and functionalities.

General Information

Can Lamps be used with IP Rated/Outside fittings?

Possibly, but the colour will most likely be affected by the position/angle and lens of the fitting, causing the colour to have a different tint than what has been chosen on the App.

IP Rated Fittings/Enclosures can also reduce the Signal output of Devices, therefore reducing their connection range meaning you may have to have Devices closer together for them to pair to the Hub and work correctly.

Can you control the AOne System from a computer?

Only Phones and Tablets are supported currently. From a computer you can use 3rd party software to run Mobile Apps.

A new Windows version has been announced that will allow you to run Android Apps on your computer natively but currently do not have any further information on how this will work.

Does the AOne app influence other programs on my mobile phone?

No, it won't affect any other programs or apps on your smartphone or tablet. It will just affect your AOne Devices.

Do I need to keep my phone on and logged in to my application all the time to keep my System running?

No, the AOne System continues to work all the time, 24/7 regardless of whether your Phone and/or Application are on/open. It is the AOne Devices that run your lighting system.

You only need your Phone for the initial setup of the System and for controlling your lights and making changes (adding new Devices, organising Spaces, etc.)

What does OTA mean?

OTA stands for Over-The-Air. It is a method of delivering software updates to devices without needing to physically connect them to a computer or other update device.

Is Power Draw Monitoring available in the App?

No, this is currently not a feature of our AOne Connect.Control Devices.

Which Devices support Schedules?

All Devices besides the Switches/Dimmers below can be Scheduled:

- Battery Remote
- Battery Rotary Dimmer

What Third Party Platforms are compatible with the AOne System?

The AOne Connect.Control System is not currently compatible with third party platforms.

Specifying AOne

Devices

Lamps

Smart Lamps can be controlled individually.
This is the best solution when the customer wants granular control over every light within a Space.
Smart Lamps also allow for a wider range of colours (Colour Temperature and RGB).
This does mean that for large installations, more Devices will be required meaning that multiple Hubs may be needed to complete the System.

Remotes/Dimmers

For a physical or secondary control solution, you can install one of the options available such as the Battery Remote or the Kinetic Wall Switch.
This is especially useful when installing Smart Lamps or LED Strip Controllers.

LED Strip

We offer 5M (AU-A1BTCWSK) and 3M (AU-A1BTCWSK4) LED Strip Kits.
These include the LED Strip, Bluetooth Module, LED Driver and Battery Remote.

We also offer 3M (AU-A1BTCWS3M) and 2M (AU-A1BTCWS2M) Addition Strip Packs.
These only include the LED Strip and Bluetooth Module.

Add 3M & 2M Strip Addition Pack for an additional 5M of Strip to the 5M Kit.
10M in total, 5M max length.

Add 3M OR 2M Strip Addition Pack for an additional 3M OR 2M of strip to the 3M Kit
6M total, 5M max length.

You also require the Splitter cable if using the Addition Strip Packs which allows you to use 3 Strips lengths on a single Driver:
AU-A1BTSP3W

LED Strip Cut-off points are every 167mm.

Cable Lengths:
Power Cable to Driver - 1.2M
Driver Cable to Bluetooth Module - 1.5M
Bluetooth Module to LED Strip - 140mm
Tail on Strip - 200mm

Placement / External Factors

Tips for installing the AOne system

The number and type of devices being used and the environment and materials in the space surrounding the hub and devices can impact the overall system performance.

1. The distance between Devices will need to be closer if the walls or ceilings between them are composed of solid material.

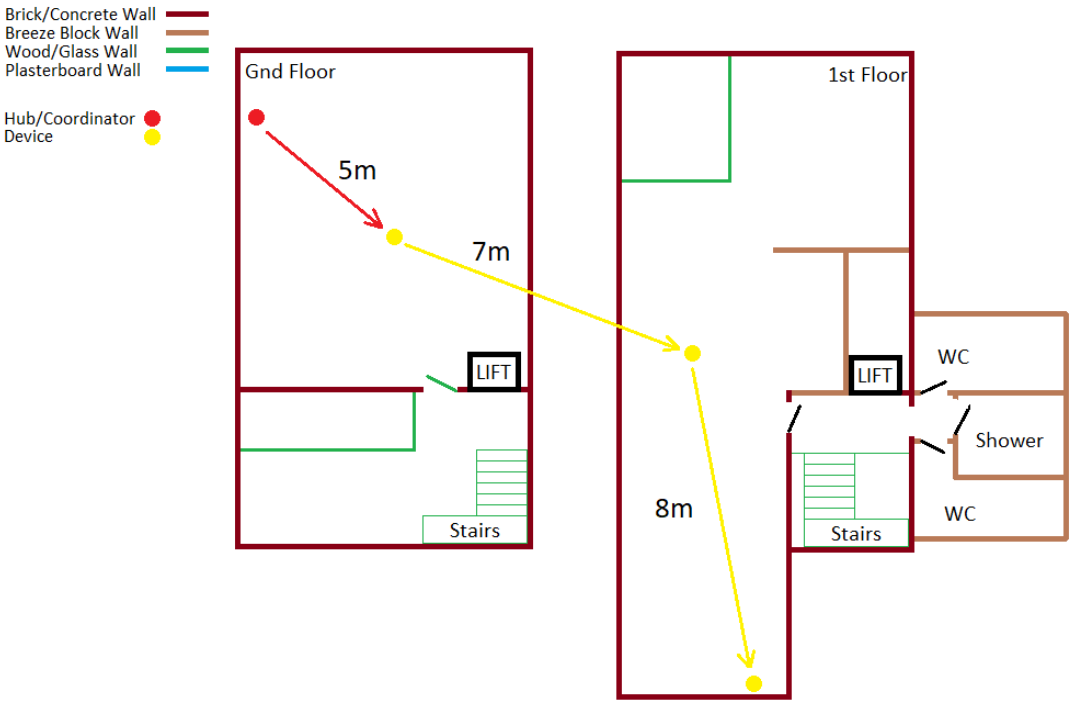
2. The distance between devices can be further apart in more open spaces (up to 20m).

3. Metal can also affect the system performance by reducing the signal strength between Devices (metal wall boxes, enclosed metal light fixtures, metal cable trays etc.).

4. If the AOne System is being used in a large space consider breaking the area into zones with a a Room or Account per Zone

5. Remove the temptation for users of the space to use a manual switch.
   This will cause performance issues across the System and even stop Devices attached to the switch to Mesh (or hop messages across the space) and stop working all together.

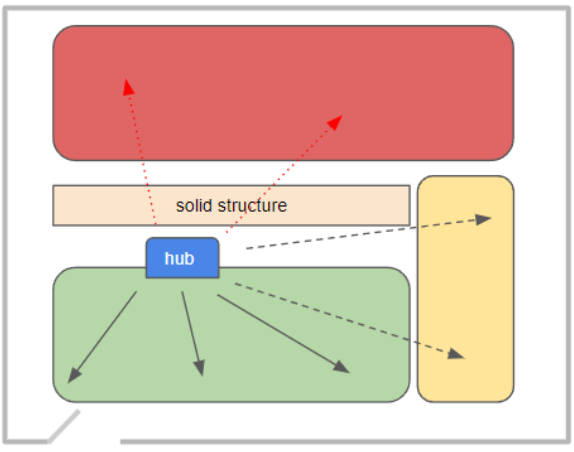
There is no standard installation! All installations are unique



The number and type of Devices being used and the environment and materials in the space surrounding the Devices can impact the overall system performance.

For the best results 'work around' potential obstacles such as solid walls or metal structures. The Bluetooth Low Energy network used for the AOne system needs to have a 'line of sight' to AOne Devices. For optimum results, especially if there is a lot of metal, Devices should be less than 5m between each other.

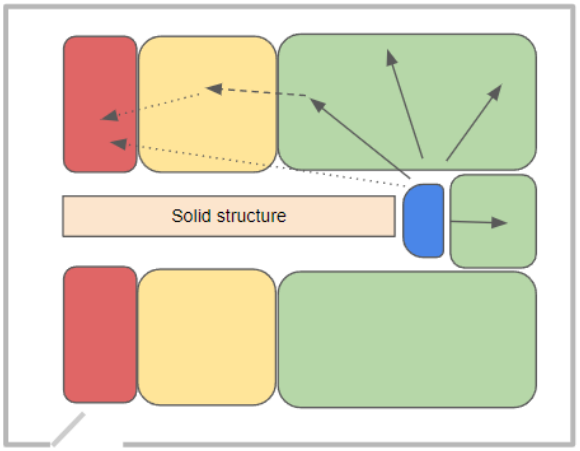
In particular placing AOne Devices on top or near to metal can reduce their Bluetooth signal strength by at least 20%. A Bluetooth system will perform better in a large open space where the signals are not being impeded.



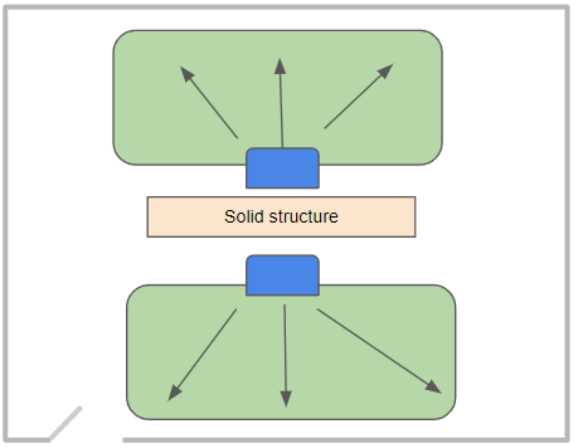
The number of Wifi networks in the same space will also reduce the performance of the Bluetooth network and may require less distances between Devices and the Hub.

- The signal from the Device will be stopped by the solid structure
- Green area indicates a good Bluetooth signal
- As the distance from the Device increases the Bluetooth signal will decrease and fall below an acceptable level as in the yellow area

Device location is important



If a space is large some devices furthest from the Phone / Device may not work due to a weak signal.



- The Bluetooth signal has to be above a certain level to perform consistently.

Sometimes more Devices are better.

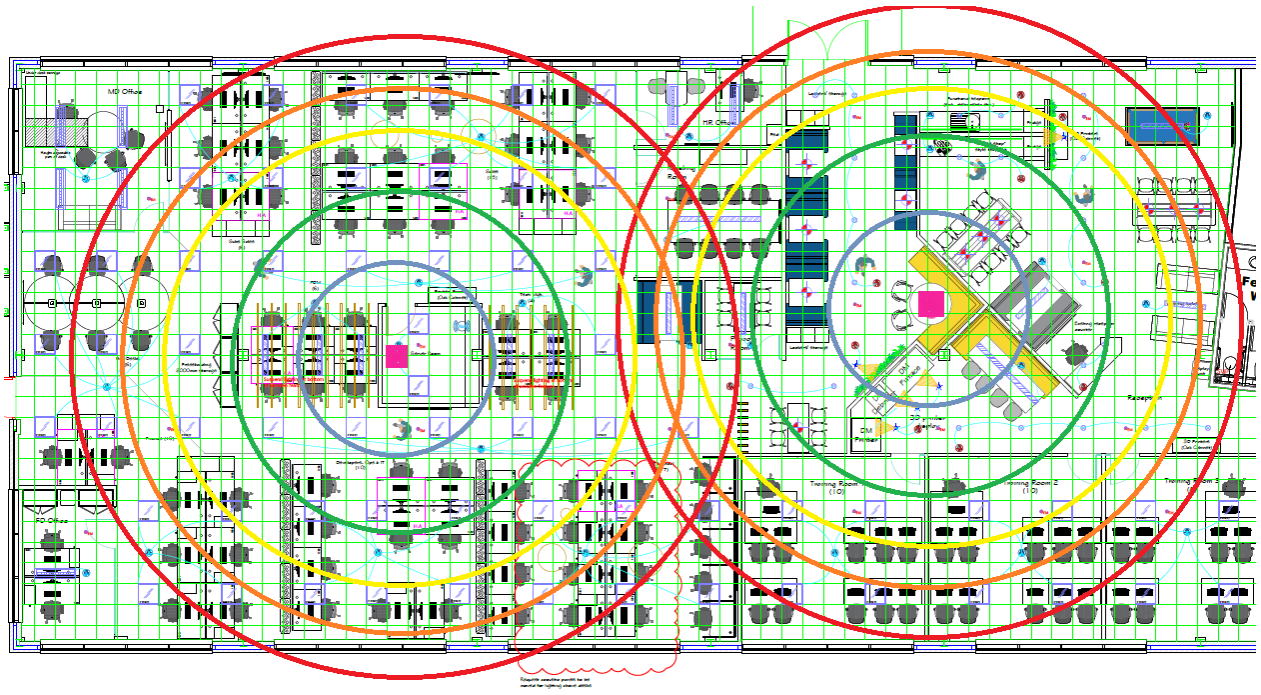
- This layout can create a better performing experience for the end user
- Gives flexibility in the different areas

Signal Guide
To help understand how the mesh works, detailed in the image below are the signal boundaries:

Hub
-60 to -69 - **Blue** - Good
-70 to -79 - **Green** - Acceptable
-80 to -89 - **Yellow** - Poor
-90 to -99 - **Orange** - Bad
<-100 - **Red** - Difficult

However, do be aware that there are many external factors that will affect the performance of the overall system such as Phones, High Powered Speakers, Wall Amount & Thickness, Building structure, Spacing of Devices & other Internet Connected Devices.

Remember, every device is competing for signal and will attempt to “talk” over one another.



Cable Trays

In commercial buildings a site visit is strongly recommended!

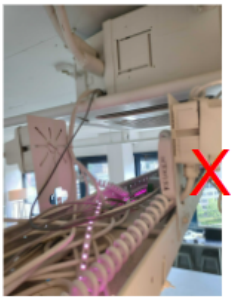
1. If a building uses metal cable trays then this will impact the Bluetooth signal strength at each device.
   A loss of > 20% in signal strength (-15dB).

2. Place AOne Devices as close to each other as possible and run longer cables out to the products.

3. Though be careful not to crowd too many devices into a small area as this can have a detrimental impact on the stability of the Bluetooth network.

4. Where AOne Devices are placed in a metal tray try and cable them somewhere away/above the cable tray.

5. Don't place AOne Devices on top of LED drivers as this can have a worse effect than the cable tray as the driver will be generating an electromagnetic field encompassing the controller.



Multiple Wi-Fi networks will also generate more interference with the AOne Devices.

Usability

System/App

Refrain from trying to control the whole System at once!

Instead create multiple Rooms and have Switches/Remotes control each Room, rather than 1 Switch controlling all Devices.

Rather than having a Schedule for a whole house (especially larger Systems), create a Schedule per group of Devices and space them out within a 10-15 minute timeframe so the System is not overloaded.

We recommend creating Rooms with around 10-20 Devices maximum if possible.
This will mean having a System that can handle larger groups of Devices but can also have a high performance.

Limits

If nearing the Device limit on an Account, it would be better to split the System into multiple Accounts.
This way the System won't be overloaded and will be less likely to experience performance issues.

Device

Device performance is based on the performance of the entire System.
This means that if some Devices in a Room have poor Signal/Connection, the rest of the Room will also perform in a similar fashion.
Battery operated Devices will seem to not work or appear to be slow when using them if the above applies.

Phone

Older Phones that may not be up to date or are already experiencing slow performance in general may also experience issues when using the Aurora BLE App.
We recommend using Phones/Tablets that are no more than 5 years old if possible, to be able to have adequate App performance.

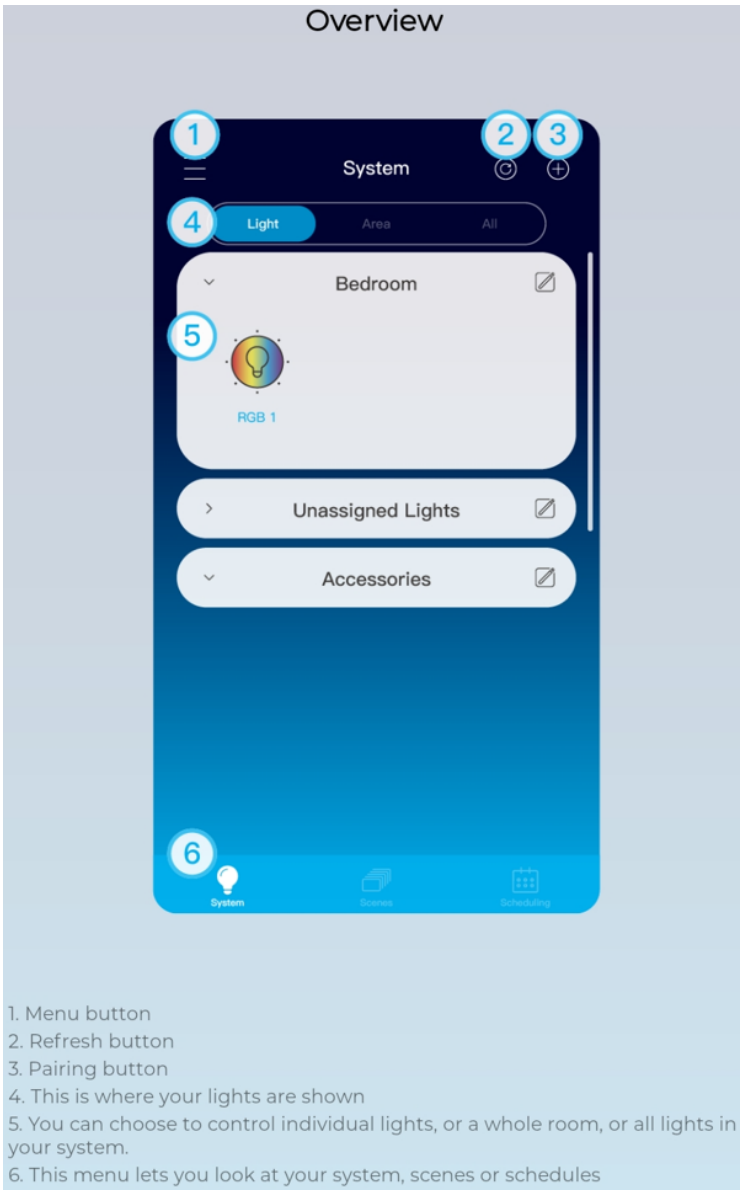
Aurora BLE App

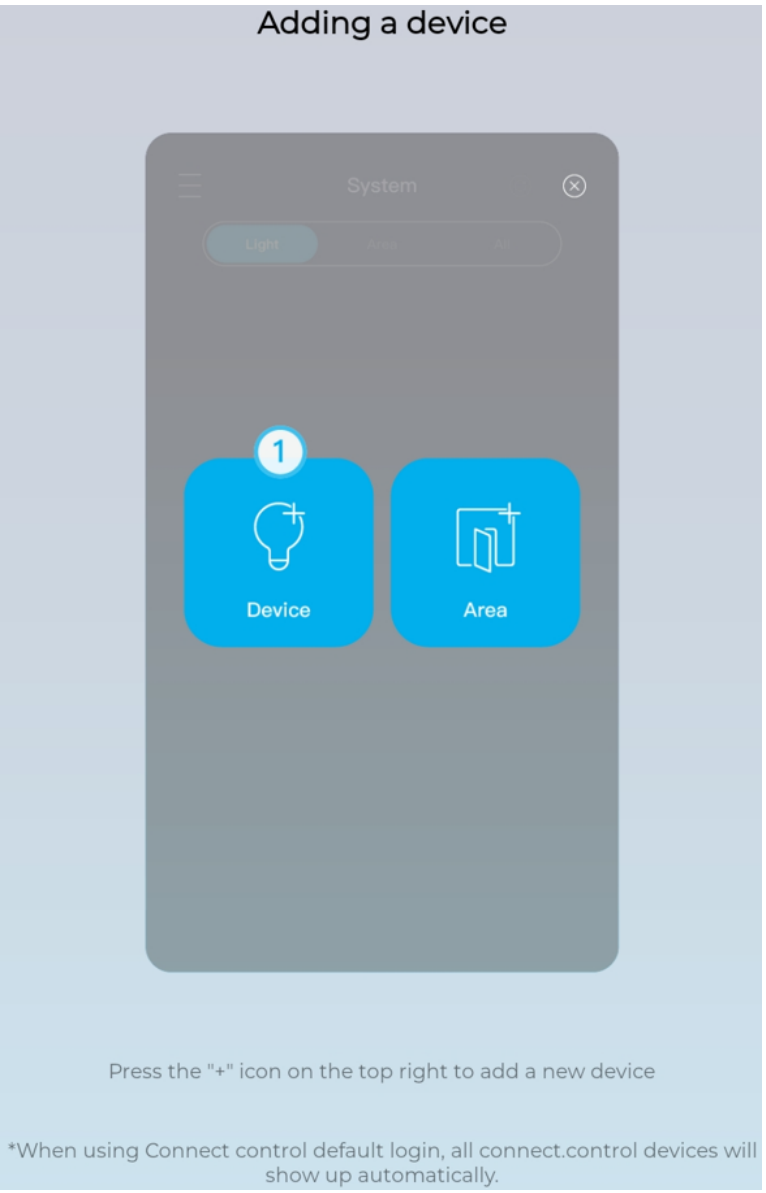
Getting Started with the Aurora BLE App

Welcome to the Aurora BLE App!

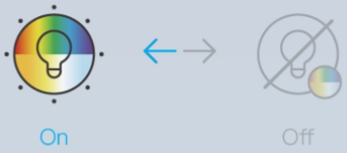
Use Scenes and Schedules to change your lighting Spaces throughout the day to suit your needs.
Or jump into the Rooms view to control individual Devices and tweak levels.
Why not create a cool, bright Scene for the morning to wake you up, and a warm, dimmed Scene for the evening to help you relax.

Welcome Tutorial





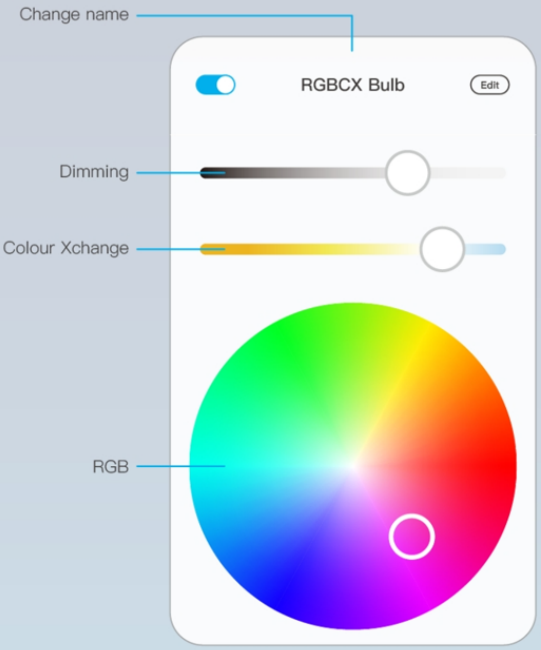
Controlling lights



Click any light to turn on/off

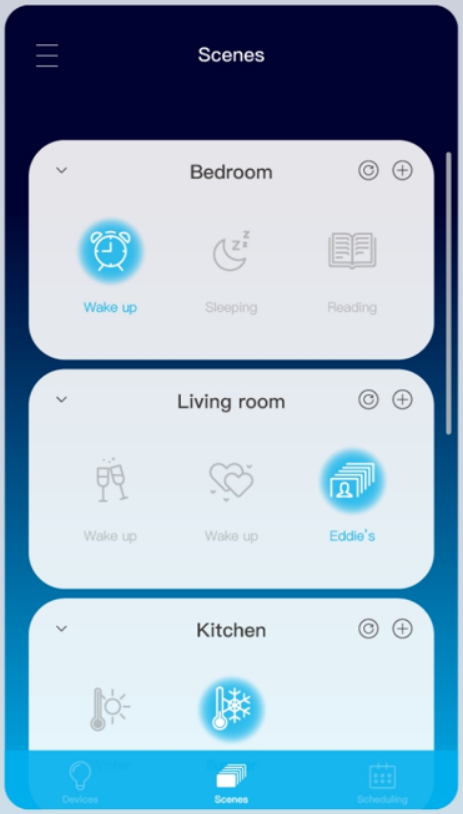
Press and hold it to open the editing page

Controlling lights



Here you can change colour and dimming. as well as change the light name

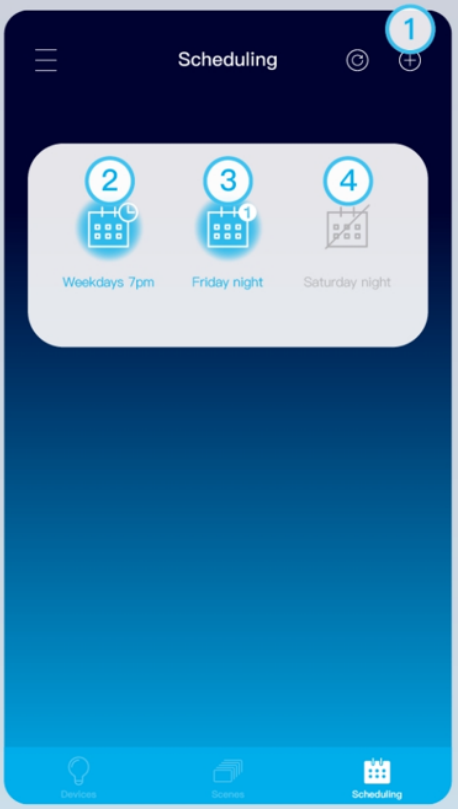
Create scenes



Once areas are created, you can create your scenes.

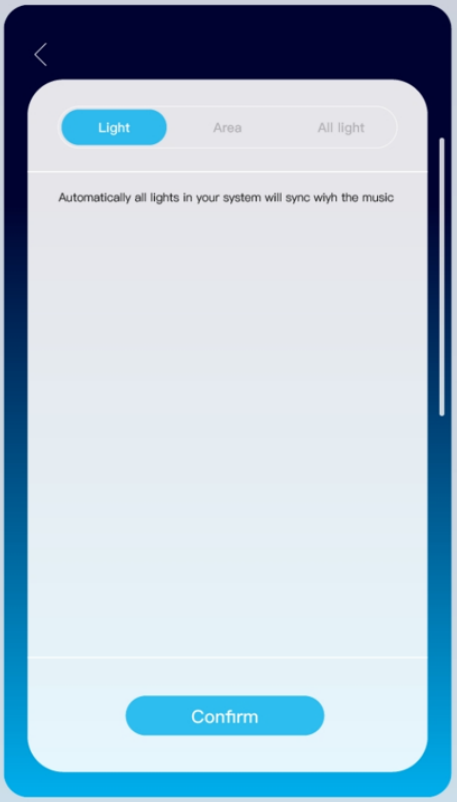
Connect control devices automatically have 5 scenes set up, do not delete scenes just use the edit button to make adjustments.

Create schedules



1. Add schedules
2. Repeat
3. Once
4. Off

Music mode



Go into menu, press on sync music icon, then choose to either control a light, room or all lights.

Connect.control devices things to know

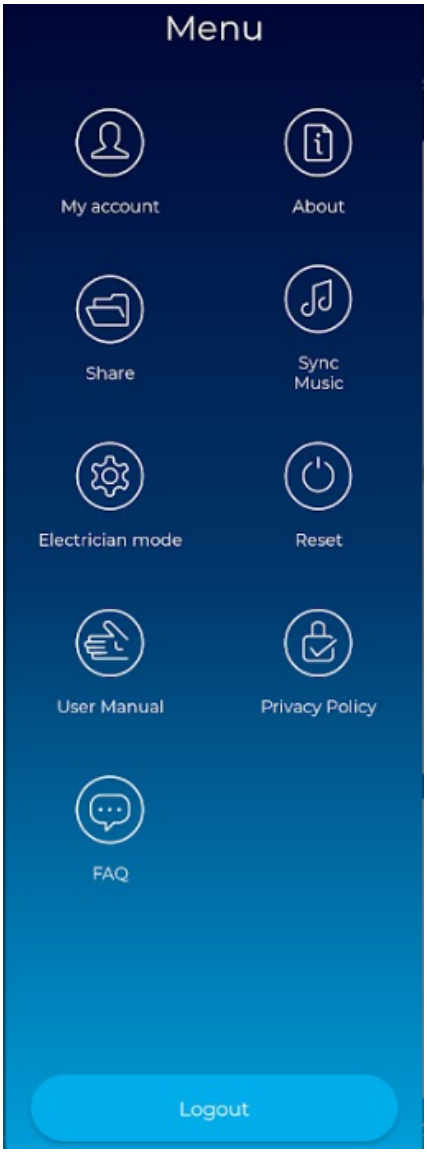
There is no need to pair the remote controller to the App using the default login details.

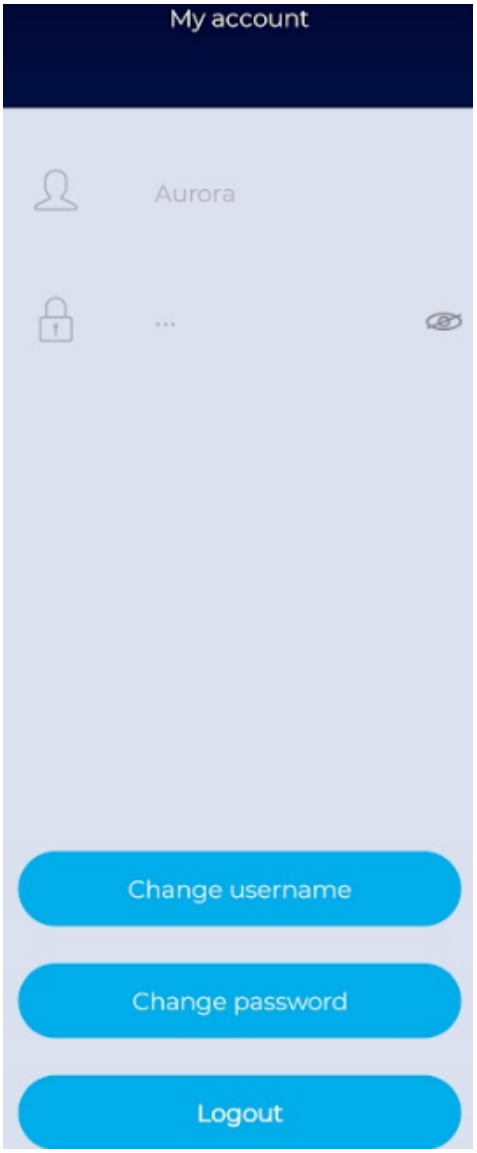
You can make edits to the scenes already set up, and the remote will recall the updated scenes.

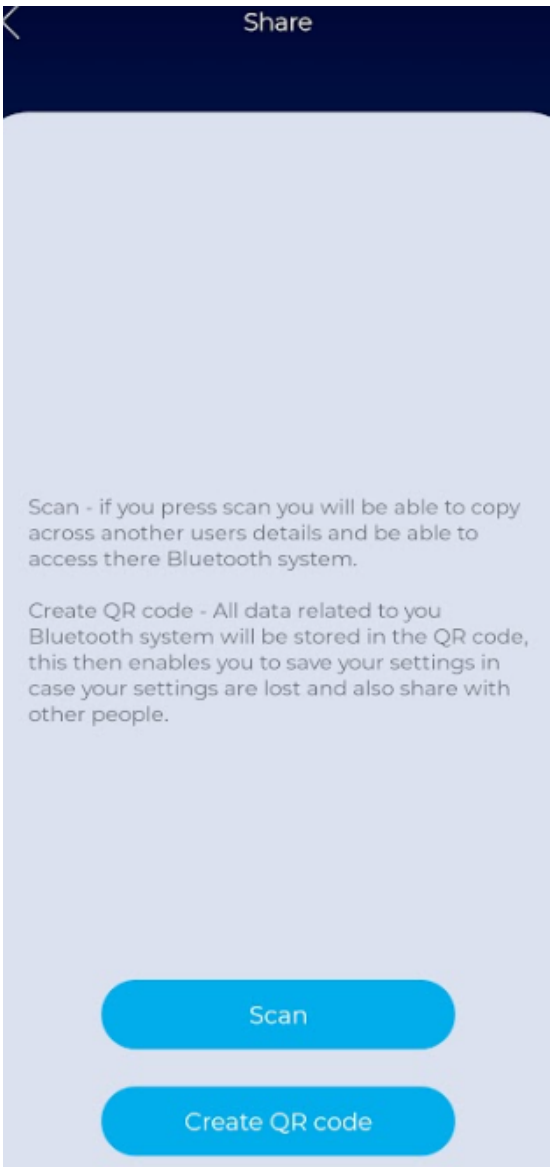
If you want to reset back to factory settings 'out of the box' then switch on for 1 second and off for 3 seconds 6 times, the lights will then flash 3 times, the lights will then flash 3 times.

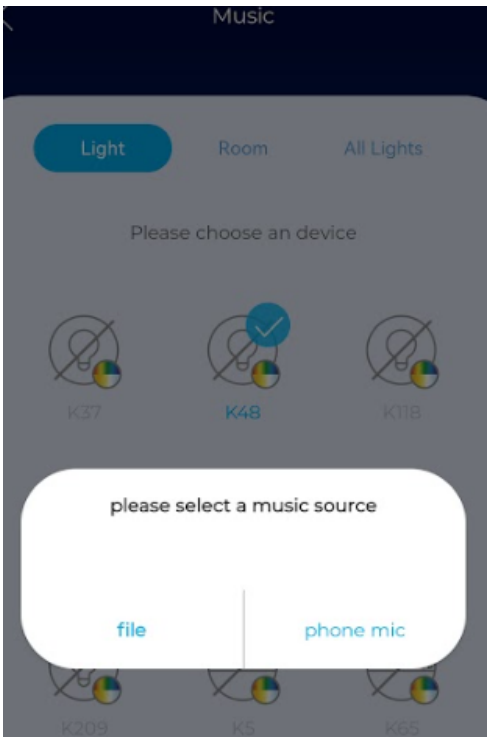
Devices will now be back to factory default, and you can start again.

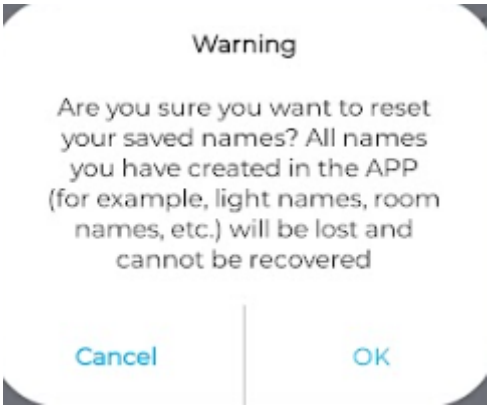
Settings Tutorial

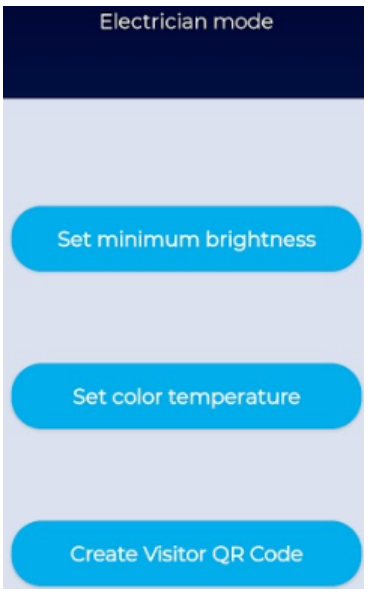





Share
Scan - if you press scan you will be able to copy across another users details and be able to access there Bluetooth system.
Create QR code - All data related to you Bluetooth system will be stored in the QR code, this then enables you to save your settings in case your settings are lost and also share with other people.
Scan
Create QR code


Music
Light
Room
All Lights
Please choose an device
K37
K48
K118
please select a music source
file
phone mic
K209
K5
K65


Warning
Are you sure you want to reset your saved names? All names you have created in the APP (for example, light names, room names, etc.) will be lost and cannot be recovered
Cancel
OK


Electrician mode
Set minimum brightness
Set color temperature
Create Visitor QR Code

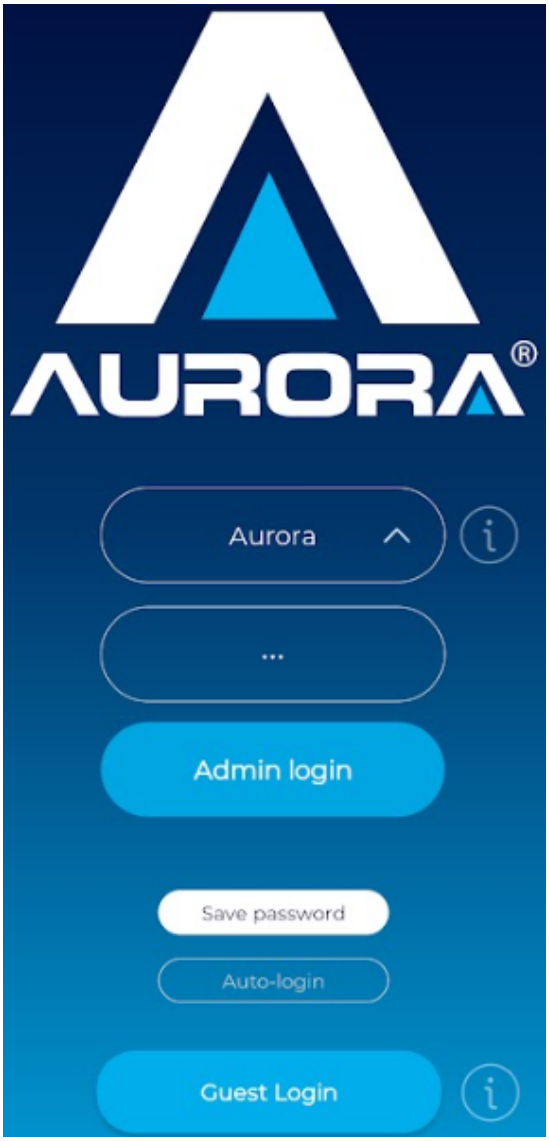
Accounts Menu

Connect.Control User

Connect.control gives you full control of the starter kits and wider connect.control range, a great way to view your system, without any set up and to access advanced features, like, schedules, scenes, music mode.

AOne BLE User

Setting your system up without connect.control configuration might be required for commercial applications. The connect.control remote requires a software update to work in a private account set up.



Account name rule:

maximum 16 characters, combined with letters, numbers, symbols of "-" "_" and "space".

Password rule:

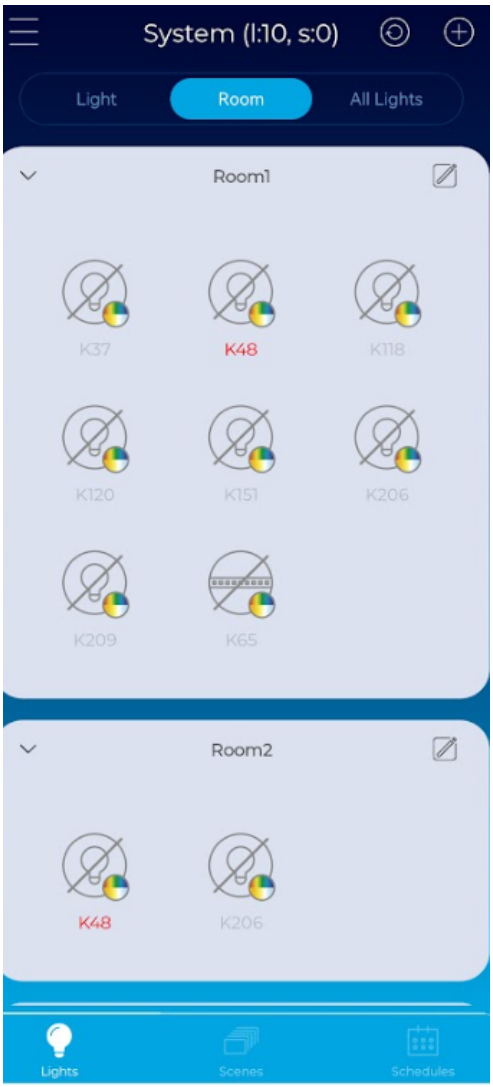
maximum 16 characters, combined with letters and numbers.

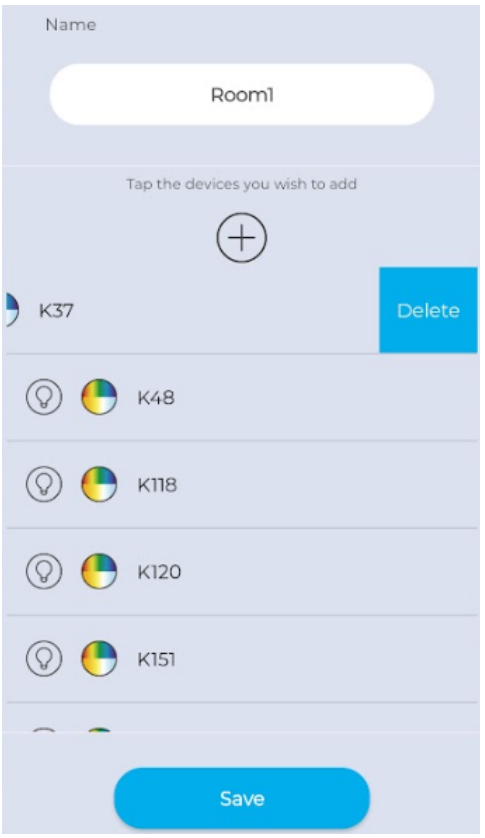
Please write your username and password down in a safe place, as these will not be recoverable.

Guest Login

if you plan to scan a QR code which will give you access to the system but you will be unable to edit current settings

Lights Tutorial





What is a Room

A Room, as the name suggests, should be considered to be one of your Rooms, for example Living Room.
This Space should then contain all the Smart Devices found in the Living Room.

Do be aware that Devices can only be a part of 1 Room at once

How many rooms can be created?

8 Rooms can be created per account.

How to create a Room

Press + in the top right corner of the Main Screen, then tap Room.
Name is as per preference and add whichever Unassigned Devices you wish to have in this Room.
Press Save when finished.

Pairing Instructions

How to pair a Device

Devices will pair straight away out of the box and will work with Remotes and the App as part of Room 1.

Lights

Lamp

To reset Lamps:
Turn them off/on from mains 6 times.
Wait for 3 seconds when off.
Wait for 1 second when on.

LED Strip

To reset LED Strip:
There is a reset button on the White Strip Controller Box.
Press and hold for 5 seconds.
The Strip should then flash, indicating it is resetting.

Switches

Battery Dimmer

To reset Battery Dimmer:
"Press and hold both buttons for 10 seconds.
The LEDs should flash indicating this has worked."

Battery Remote

To reset Battery Remote:
Press and hold on/off buttons for 6 seconds.
You will see the LED flash to indicate this is working.

How to rename Devices

Press and hold the Device you want to rename.
Tap the Edit Button
Tap Edit name
Enter the new name
Tap Save.

How to move a Device to another room (Unassign)

Press the Edit button next to the Room you wish to edit
Swipe from right to left on the Device you want to Unassign
Tap Delete
Press Save when done
Edit the new Room and Add the Unassigned Device

What is a Scene

A Scene is a collection of specific settings for a Room that can be recalled at the tap of a button, for example (All Downlights 25% Brightness) or (Half of Downlights 100% Brightness & Half Downlights off).
You have the option of setting the Power State (On/Off), Brightness, Colour Temperature (Warm White - Cool White) and Colour (From Colour Wheel).

You can create up to 8 Scenes per Room.

How to configure a Scene

Tap the Scenes Menu
Tap + on the Room you want to create a Scene For
Select an Icon for the Scene then tap Add
Modify the individual lights or the Room entirely
Tap Save
You can then recall the Scene by tapping on it

What is a Schedule

This is an Event where a Space/Device is turned On/Off or where a Scene is activated at a Scheduled Time/Day, for example (Turn Living Room Downlights on at 15:30 on Weekdays).

You have the option of activating a Scene or controlling a Space or Device within the Space.
You can activate a Scene on and turn a Space/Device On/Off.
You can set the Schedule to trigger on a specific Day, Weekdays or Weekends and at any time of the day or at Sunrise/Sunset.

You can have up to 16 Schedules per Room

How to configure a Schedule

Tap the Schedules Menu
Press +
Rename the Schedule as per preference
Select the Month, date and time for a single Schedule
Tap Repeat for a repeating Schedule
Choose the Days of the Week for the Schedule to work on
Tap + to select the Room and Scene to activate
Tap OK and Save and done

User Management

How do I share access to my AOne System with other users?

Have both you and your friend enter into the Share section located in the side menu. Make sure you have an active, stable internet connection. For the user who wants to share their settings, create a QR code. Have the other user scan the QR code. After the settings have successfully been transferred, the new user will have access to all of the same contents the original user had created.

Frequently Asked Questions

What are the factory default settings?

Username: Aurora
Password:123

I have set up my own password now I can't see any of the Connect.Control devices

The devices will only automatically appear when using the factory default settings.

If you have paired any devices to your own specific username then you need to contact technical customer support to upgrade the remote to work on your custom username.

If you want to continue using the default settings, then you will need to ensure you delete the devices from your existing setup, or log out of the App, turn the fittings off/on 6 times at least with 1 second intervals until you see the lights flash 3 times, these will then be restored to the factory default settings and once you log in using the default password the devices should now appear.

Can you use the remote to control individual rooms separately?

No, the remote can only be assigned to one group so 'out of the box' it will control everything.
However, it is possible to assign the remote to a specific set of lights.
Please follow the guidance on the website for further instructions.

Why do I have to use the factory default login details?

All devices are set to a pre existing Mesh when they are produced, this enables immediate simple control of your lights straight 'out of the box' with no set up required, if you want to make simple updates like editing a scene or setting a schedule then using the default settings gives you instant access to make quick updates, without having to pair all of your devices.

Can I change my password for the factory setting password?

Yes you can but you will lose the simple functionality and the remote will no longer work. If you want to create your own private settings then you will need to pair the lights and call technical support to explain how to update the software on the remote step by step.

What are the Colours for the 5 Remote Buttons?

There are 6 different preset RGB colours; Red, Yellow, Green, Cyan, Blue and Magenta.

I can't see my Bluetooth devices

Confirm the login username and password is correct. Pay careful attention to lowercase and uppercase characters since both usernames and passwords are case sensitive.
Ensure your Bluetooth is switched on, and if you are using an Android device the GPS functionality is also turned on.

I no longer can find my Bluetooth devices /

I keep receiving a "Login Fail" message when logging in

Confirm the login username and password is correct.
Pay careful attention to lowercase and uppercase characters since both usernames and passwords are case sensitive.
Ensure your Bluetooth is switched on, and if you are using an Android device the GPS functionality is also turned on.

How many users can concurrently use the app?

We suggest limiting the amount of concurrent users to half of the amount of connected Bluetooth lights on your mesh.
For example:
2 lights = 1 concurrent user,
4 lights = 2 concurrent users,
8 lights = 4 concurrent users,
Etc.

What happens if power is lost to the system, are all of my settings lost?

Each Bluetooth embedded device comes with flash memory.
This flash memory helps to save your Bluetooth mesh settings.
When power comes back online you will be able to resume as usual with your smart lighting application.

How do I control my lights when I'm away?

By pre-defining your go-to schedules, you can be able to fully automate your lighting while you are away from home.

Are the Bluetooth devices compatible with my existing dimmer switches?

LED dimmer switches will cut power going to the Bluetooth modules in the lights and AOnes and render them non-functional.
Existing LED dimmer switches on the wall can still be used, but you will need to leave them set at 100% dimming load.
You can replace your existing LED dimmer switches with your Bluetooth dimmer switch options for a complete solution.

How do I tune the colour for all of the lights in a group at once? I want the colour and dimming levels to be synchronised

Use the toggle buttons at the top of the scene creation pages (press Area), then enter any light to tune the properties for all of the lights in the scene.

What do the "All, Area, Device" buttons do at the top of the Devices page?

These buttons allow you to control all lights at once, a whole area at once, or an individual light at once

AOne App crashing on Android Device

Restart your Android Device
The first thing you should do is restart your Device. The processes that may be opened along with the apps that keep running in the background will close after you restart your Device. That way, you will free up the memory that might have been clogged. Your Device will perform smoother. If you notice the apps keep crashing or freezing after the reboot, move to other solutions.

To restart your Device, press and hold the Power button. When the menu appears, tap Restart or Power off and Restart.

Update your apps
App engineers are giving their best to deliver a great experience to the users, which is why they are constantly working on improvements. If users complain about the issue, including freezing and crashing, developers will fix it with an update. That is why it is essential to regularly update all your apps or at least the ones you use daily.

1. Open Google Play App
2. Tap on three horizontal lines to open the menu
3. Next, tap on My Apps & Games
4. You can tap Update all, or go through the apps and update only the ones you want.

AOne App crashing on iPhone

Sometimes the simplest solution to resolve a crashing application in iOS is to quit the app and then relaunch it. The idea behind this is that you'll clear the app from memory and allow for a clean launch.

1. Bring up the multitasking screen
2. Locate the application you wish to quit, then swipe up on the app to quit out of it
3. Return to the Home Screen of iOS, then tap the app icon to re-open it again
4. Another approach for app crashing issues is to try to force reboot the iPhone or iPad by holding down the Power button and Home button until the Device flashes the Apple logo. Then let it boot back up and try to use the app again.

Keeping apps updated is also vital to maintaining application stability and the reason is quite simple: developers identify bugs within their apps, fix them, and then push an update to the app.

1. Open the App Store and go to the "Updates" tab
2. Install any updates available to the application which is exhibiting crashing problems or bugs
3. Relaunch the freshly updated app
4. You can also try to delete the crashing app and then reinstall it. Reinstalling apps you will dump app cache at the same time and those caches can sometimes be the cause of the app crashing in the first place.

Updating iOS to the latest version is another way you can resolve apps crashing issues and this combined with installing the latest version of an app is usually the be-all-end-all solution to a problematic app experience. Be sure to back up the iOS Device before you update iOS.

1. Backup the iPhone, iPad, or iPod touch to iCloud or iTunes – don't skip this
2. Open "Settings" > "General" > and go to "Software Update"
3. Choose "Download & Install" and let the entire iOS updating process complete

How to Reboot Bluetooth Mesh

1. Turn off Devices from the Mains
2. Starting from the closest Device to the Phone, proceed to turn on Devices one by one if possible, otherwise circuit by circuit
3. Proceed until you have turned on the last/farthest away Device

How to OTA Battery Remote

- Open App
- Log into Private Account
- Access the Side Menu and tap ""About"" then ""OTA""
- Select ""Downloads"" OR ""Downloading""
- Select ""8269""
- Locate ""Control"" then tap it
- Find and tap ""01-R-Remote-A69-V1.2.bin"" to download it
- Once Downloaded return to HomeScreen
- Press +, Select ""Device"" then ""Quick Connect""
- Press and hold the ""On - I"" & ""Off - O"" buttons for 6 seconds until the Blue LED Flashes
- Once the Remote appears on your App, select it then press ""Add"" to pair it
- Return to the OTA Menu
- Select the ""Control"" section, tap the Firmware file then tap ""Confirm"" OR ""Done""
- Select the Remote then tap Save
- The update will then proceed, which can take around 3 minutes to complete
- Once complete return to the HomeScreen

You may need to wake the Remote back up to access it via the App.
To do so press and hold the ""On"" button for 2 seconds.
In rare cases you may need to re-pair the Remote before being able to programme the functions

https://youtu.be/ZGn5dbqq8eQ?t=101

How do I contact AOne customer support?

If you need any further help or have any questions, please email us at aone.help@auroralighting.com, raise a support ticket on Zendesk, via the AOne App.