

PULSE 2 HUB

Set up Instructions for iOS and Android



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Pulse 2 Hub | Set up Instructions for iOS and Android

The Pulse 2 connects to home networks to unlock the luxury of automated shade control. Experience customization with scene and timer options as well as voice control via Google Assistant, Amazon Alexa, and Apple HomeKit.

THE APP ALLOWS FOR:

- 1. Individual and group control Group Automate shades by room and conveniently control them accordingly.
- 2. Remote connectivity Control shades remotely, whether home or away on a local network or an internet connection.
- 3. Smart Shade Prediction Function that opens or closes shades with one tap depending on the time of the day
- 4. Scene control Personalize shade control and organize how your shades operate by specific daily events.
- 5. Timer functionality Set and forget. Lower, raise and activate shade scenes automatically at the optimal time.
- 6. Sunrise and Sunset Utilizing time zone and location, the Pulse 2 can automatically raise or lower Automate shades according to the position of the sun.
- 7. Compatible IoT Integrations:
 - Amazon Alexa
 - Google Home
 - IFTTT
 - Smart Things
 - Apple HomeKit
 - Brilliant

GETTING STARTED:

In order to experience automated shade control through the Automate Pulse 2 app, you will need to have:

- Downloaded the free app Automate Pulse 2 App via the Apple App Store (available under iPhone apps) or iPad apps for iPad devices.
- Purchased one or more Hub's depending on the size of the area you would like to cover.
- Familiarized yourself with the app navigation guide below.
- Created a Location then pair hub to that location. Our step by step guide will explain in more detail.

WI-FI HUB TECHNICAL SPECIFICATIONS:

- Radio Frequency range: ~ 60 feet (no obstructions)
- Radio Frequency: 433 MHz
- Wi-Fi 2.4 GHz or Ethernet Connectivity (CAT 5)
- Power: 5V DC
- For Indoor UseOnly

BEST PRACTICES FOR PAIRING THE HUB WITH YOUR WI-FI NETWORK:

- Only pair the hub via 2.4Ghz Wi-Fi or through direct cable pairing via an ethernet cable.
- The Hub must be within signal range of both the automated shades and 2.4GHZ Wi-Fi.
- Ensure 5Ghz are disabled on your Wi-Fi router or disconnected from your mobile device.
- Check your phone and confirm if the Home App has been installed.
- Environments with multiple WAPs (wireless access points) may need all but the main router temporarily disabled.
- Security settings on your router and on phone may need to be temporarily disabled.
- Place the Hub in a horizontal position. (avoid metal enclosures / ceiling or any other locations that may affect the range.
- Before starting the Hub installation, make sure that all your shades are functional and charged. You can test the shade using a remote control or pressing a "P1" Button on the motor head.
- In case of range issues, it is recommended you deploy the antenna or reposition the hub in your installation.
- Add additional repeaters if is required (Only two per Hub).

CAPABILITIES:

- Motors per Hub: 30 ٠
- Locations per account:5 •
- Hubs per location: 5 •
- Rooms per Location: 30 per Hub •
- Scenes per Hub: 20 (100 per location) •
- Timers per Hub: 20 (100 per location) .

WHAT'S IN THE BOX?





В.

USB Power

Supply

Α. Automate Pulse 2 Hub

UNPACKING THE HUB 2.0:



1. Unpack the Pulse 2.



2. Check the Box Contents.



C. 32" (80cm) USB

Power Cord

into the Power Supply



D. Ethernet cable



E. Quick Start Guide

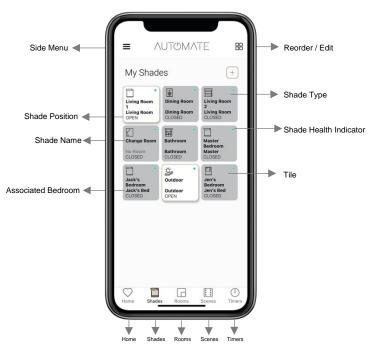


4. Connect the Micro USB end into the back of the Pulse 2



5. Plug the Power Supply into the outlet and place the Hub in a central location in your home.

APP NAVIGATION:

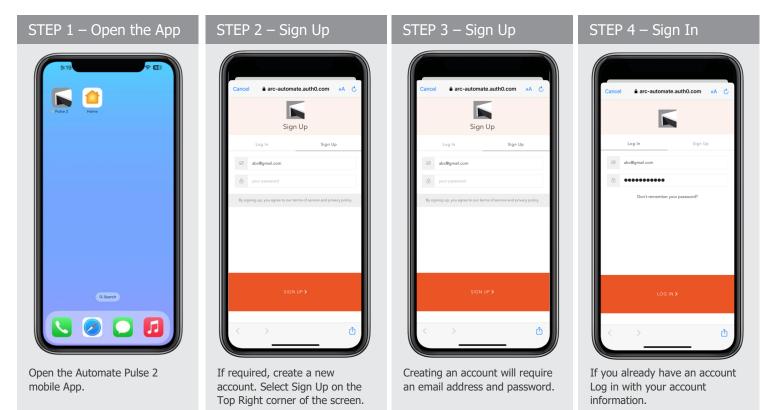


4 | Pulse 2 Hub | Set up Instructions for iOS and Android 23.05.02

Home:	Create a list of your shades, rooms and scenes in one place.
Shades:	All the shades connected to Pulse 2 Hub will appear here
Rooms:	Add shades to Rooms and control an entire room with 1 button
Scenes:	Create a Scene that sets your shades to a particular position eg Sunrise (all Open)
Timers:	Show a list of Timers that can activate a scene or a single device
App Version:	BUILD 3.1.0

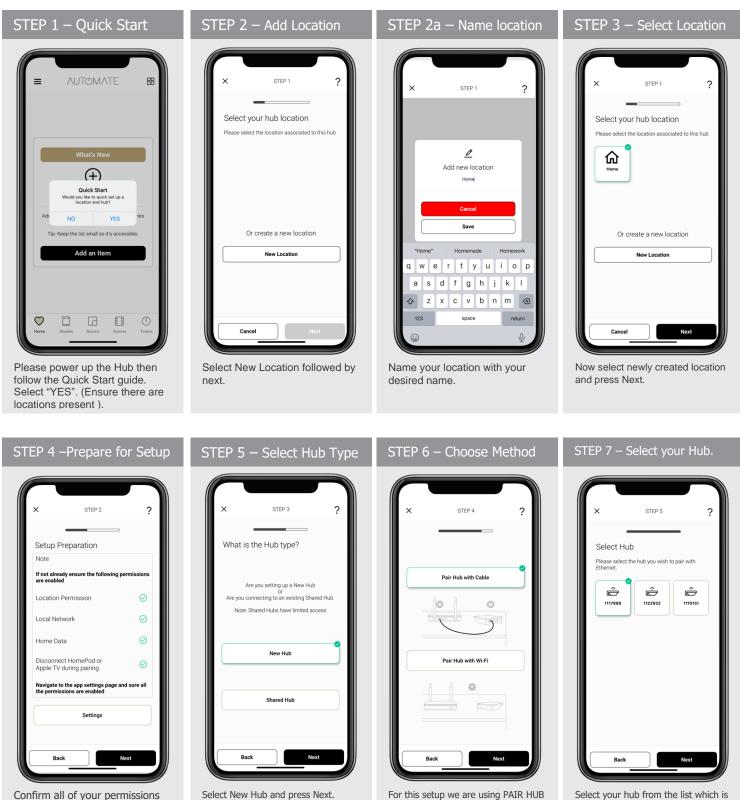
Supported Device Types: *iOS 11 and higher Device Types, Android OS 6.0 OR HIGHER Mobile and Tablets - Tablet (Landscape is supported)*

IOS - APP SIGN UP:



IOS - QUICK START SETUP:

NOTE: Only pair the hub via 2.4Ghz Wi-Fi or through direct cable pairing via an ethernet cable. Quick Start prompt will only occur is there is no Locations in the App.



WITH CABEL method. For WIFI

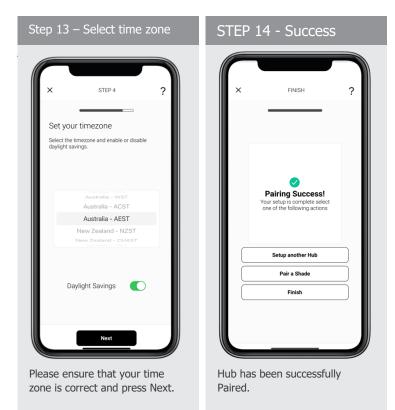
pairing method refer to next section i.e "Adding additional Hub".

Select your hub from the list which is connected to cable and press Next.

are enabled.

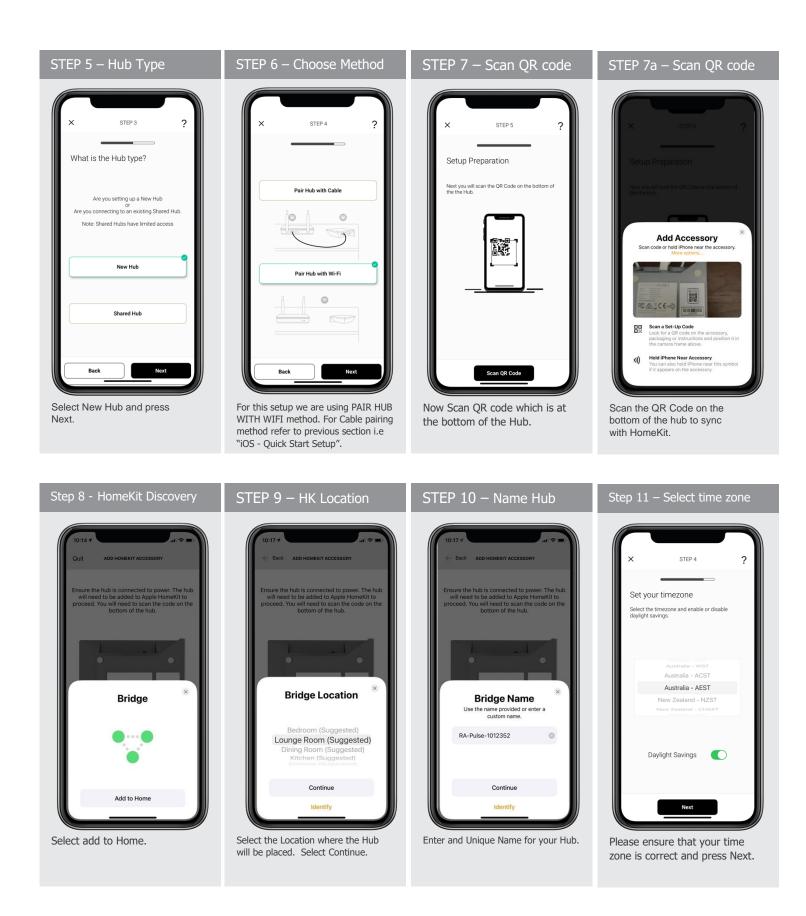
STEP 9 – Wifi Password STEP 10 – Scan QR code STEP 8 – WIFI Backup STEP 9a - Saving Wifi STEP 6 STEP 7 ? STEP LOADING ? STEP 8 ? Please wait while we saving your Wi-Fi credentials Wi-Fi Backup Connection Wi-Fi Credentials Setup Preparation Please input your Home Wi-Fi credentials 0 0 Next you will scan the QR Code on the bottom of the the Hub. Current Wi-Fi Password Show Password Жċ. Enable Wi-Fi Back Back Scan OR Cod WIFI toggle ON to switch to Put in the password for your On this screen wait momentarily Now Scan QR code which is at WIFI automatically when cable is WIFI which is of the router the as WIFI credentials are being the bottom of the Hub. plugged off. If toggled off skip to hub is connected to. saved. step 10. STEP 10a – Scan QR code Step 10 HomeKit Discovery STEP 11 – HK Location STEP 12 – Name Hub Add Accessory × **Bridge Location** Bridge **Bridge Name** Use the name provided or enter a custom name. RA-Pulse-1012352 0 Lounge Room (Suggested) Dining Room (Suggested Kitchen (Suggested) Scan a Set-Up Code Continue Continue Add to Home Identify Identif Scan the QR Code on the Select add to Home. Select the Location where the Hub Enter and Unique Name for your Hub. bottom of the hub to sync will be placed. Select Continue.

with HomeKit.



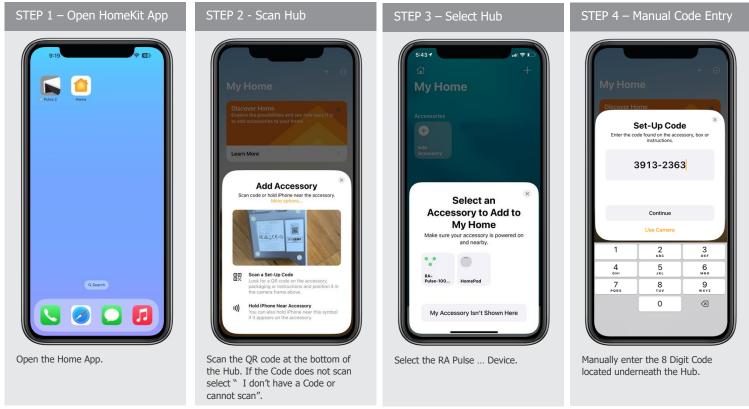
ADDING ADDITIONAL HUB TO EXISTING LOCATION:

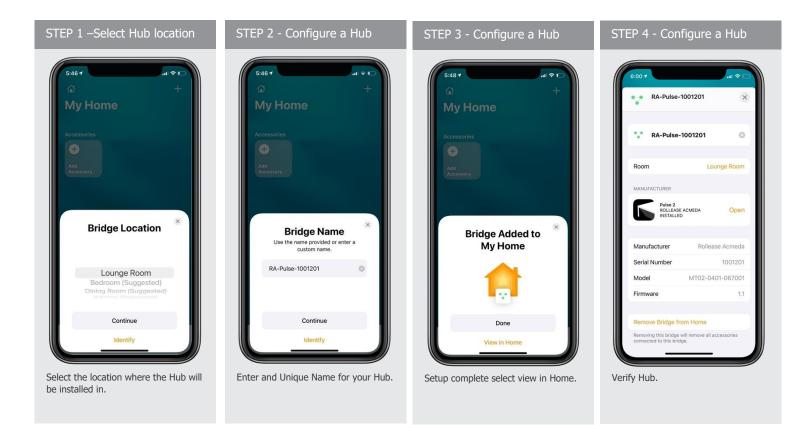
STEP 1 - Configure a Hub	STEP 2 – Add Hub	STEP 3 – Select Location	STEP 4 – Prepare for Setup
MENU Menu Coation My Home • Correct Location + Add New Location & Hub Shades & Health Shades Integrations me	Back LOCATION SETTINGS LOCATION NAME Name Home1 Hubs paired to location: Hub ID RA-Pulse-1117989 Add Another Hub Delete Location	X STEP 1 ? Select your hub location Please select the location associated to this hub Line	X STEP 2 ? Setup Preparation Note If not already ensure the following permissions are enabled Location Permission Local Network Home Data
\$\$' Connections is and Scenes Settings accessible. @ My Account image: setting		Or create a new location New Location	Disconnect HomePod or Apple TV during pairing O Navigate to the app settings page and sure all the permissions are enabled Settings
Select menu then the desired location.	Click on "ADD ANOTHER HUB" to start the process to setting up your HUB on the App.	Select location to add this hub to.	Ensure all of your permissions are enabled.



STEP 12 - Success
X FINSH 2
Pairing Success! Your setup is complete select one of the following actions
Setup another Hub
Pair a Shade
Finish
Hub has been successfully
Paired.

CONFIGURATION IN APPLE HOMEKIT MANUAL OR SCANNED:





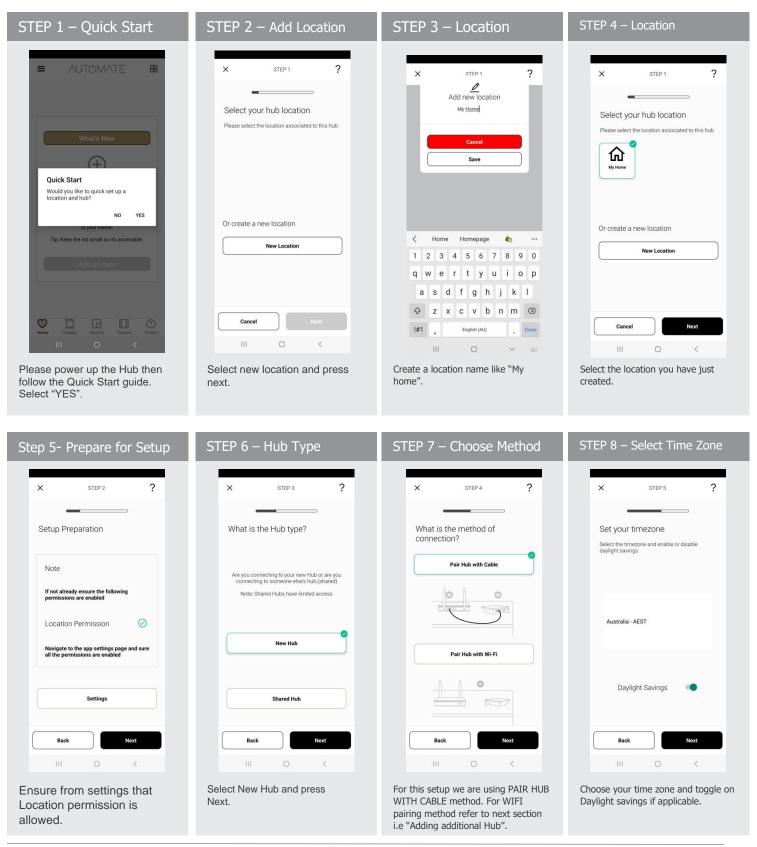
ANDROID - APP SIGN UP:

STEP 1 – Open the App	STEP 2 – Sign Up	STEP 3 – Sign Up	STEP 4 – Sign In
2:20 € 5	343 8 ± 13 + % 2 ≤ 80% 8 ×	3-43 E S ∠ · ® H = 180% € X ≜ arc estomate auth0.com < :	3:45 8 № 10 • % 10 4 80% X arc extornate auth0.com < :
Pulse 2	Log In Sign Up yours@example.com your password Don't remember your password?	Sign Up Log in Sign Up By signing up, you agree to our terms of service and privacy policy.	Log In Sign Up abc@gmail.com 4 Don't remember your password?
••			
Open the Automate Pulse 2 mobile App.	If required, create a new account. Select Sign Up on the Right tab of the screen.	Creating an account will require an email address and password.	If you already have an account Log in with your account information.

ANDROID - QUICK START SETUP:

NOTE: Only pair the hub via 2.4Ghz Wi-Fi or through direct cable pairing via an ethernet cable.

Refer to troubleshooting for more information.



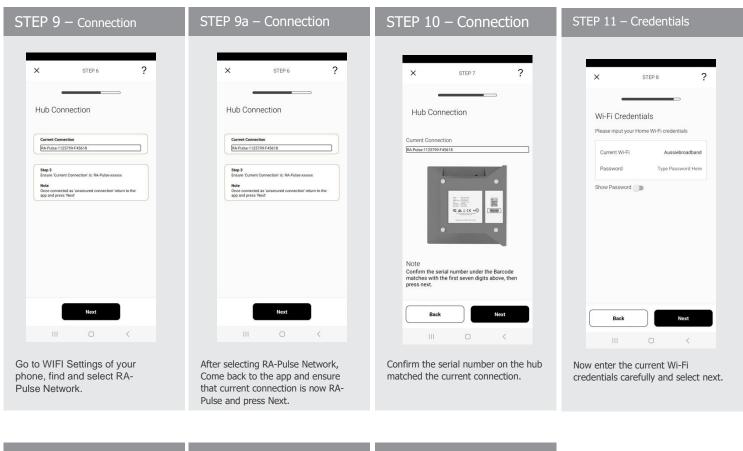
STEP 9 – Select your Hub.	STEP 8 – WIFI Backup	STEP 9 – Wifi Password	STEP 10 – Connecting
X STEP 6 Select Hub Uses esclect the hub you wish to pair with there. Uses as characterized by the select of the select Use as characterized by the select of the se	<text></text>	X STEP 8 ? WI-FI Credentials Please input your Home Wi-FI credentials Current Wi-FI Aussiebroadband Password Fype Password Here	X STEP 9 Wi-Fi Credentials Hease input your Home Wi-Fi Credentials Current Wi-Fi Aussiebroadband Password Show Password Connecting your Hub
Back Next	Cancel Next	Back Next	Back Non III O K
connected to cable and press Next.	automatically when cable is plugged off. If toggled off and press next, app will take you to step 10.	which is of the router the hub is connected to and enter Next.	your Hub and it connects Hub with internet.

STEP 11 – Nearly Done	Success
× step 9 ?	× FINISH ?
Nearly Done	
Click next to finalize your hub pairing	Pairing Success! Your Hub has been successfully paired.
	Setup another Hub Pair a Shade
Next	FINISH
III O <	III O <
Almost done, press Next on this screen.	Complete. Now pair another hub or start adding shades.

ADDING ADDITIONAL HUB TO EXISTING LOCATION:

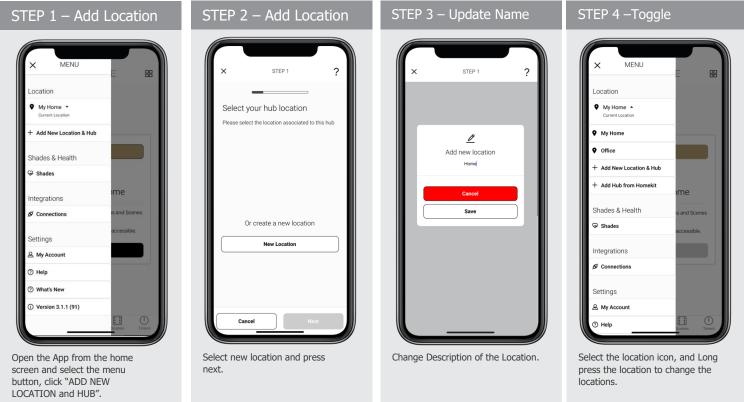
STEP 1 - Configure a H	ub STEP 2 – Add Hub	STEP 3 – Select Location	STEP 4 – Prepare for Setup
× MENU	← Back LOCATION SETTINGS	X STEP 1 ?	× step2 ?
Location			
♥ My Home ▼	Name Home /	Select your hub location	Setup Preparation
Current Location	Hubs paired to location:	Please select the location associated to this hub	
+ Add New Location & Hub	Hub ID My House	命	Note
Shades & Health	Add Another Hub	Home	If not already ensure the following permissions are enabled
Shades	Delete Location		
Integrations			Location Permission
S Connections is and Scenes		Or create a new location	Navigate to the app settings page and sure all the permissions are enabled
Settings		New Location	all the permissions are enabled
A My Account			
Help			Settings
Ø What's New			
① Version 3.1.1 (91)	(1) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	Cancel	Back
Lorres Tarrer		III O <	III O <
Select menu then the desired location.	Click on "ADD ANOTHER HUB" to start the process to setting up your HUB on the App.	Select location to add this hub to.	Ensure location permissions is enabled.

STEP 5 – Hub Type	STEP 6 – Choose Method	Step 7 – Select Timezone	STEP 8 - Connection
× STEP 3 ?	× STEP 4 ?	× STEP 5 ?	× STEP 6 ?
What is the Hub type? Are you setting up a New Hub or Are you connecting to an existing Shared Hub.	Pair Hub with Cable	Set your timezone Select the timezone and enable or disable daylight savings.	Hub Connection
Note: Shared Hubs have limited access	Pair Hub with Wi-Fi	Australia - AEST	Step 1 Ensure Current Connection' is set to Youne WFF' Step 2 Preas Young Settings > WFF' > Connect to: She 3 Ensure Current Connection's RA Pulse excess Step 2 Step 3 Step 4 Step 5 Step 5 Step 6 Step 7
Shared Hub		Daylight Savings	Aggs and press There
Select New Hub and press Next.	For this setup we are using PAIR HUB WITH WIFI method. For Cable pairing method refer to previous section i.e "Android Ouick Start Guide".	Choose Time zone and if applicable toggle on Daylight savings.	Ensure the Wi-Fi that you going to use is displayed in current connection.



STEP 12 – Connection	STEP 13– Cloud Sync	Success
× STEP9 ?	× STEP 10 ?	× STEP FINISH ?
Nearly Done Ensure you are connected to Wi-Fi and select Next	Nearly Done Ensure you are connected to Wi Fi and select Next	
Current Connection	Current Connection	Pairing Success! Your Hub has been successfully paired.
	'Connecting to our servers	Setup another Hub
		Pair a Shade
Next III O <	Neo III O <	
Ensure current connection is Home WIFI and press Next.	Connecting	Complete. Now pair another hub or start adding shades.

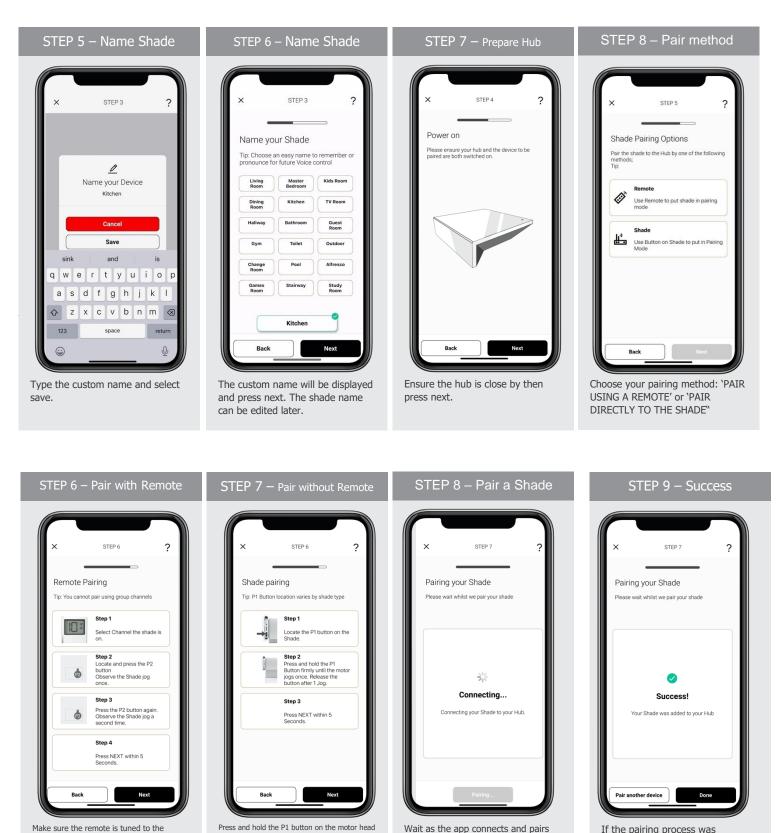
CREATING A LOCATION:



HOW TO PAIR A MOTOR TO THE APP:

During the setup, the hub may need to be moved room to room during the pairing process. We recommend setting up your motors with a remote prior to syncing with the App.

STEP 1	STEP 2 – Select Hub	STEP 3 – Device Type	STEP 4 – Name shade
	X STEP 1 ?	X STEP 2 ?	X STEP 3 ?
	Select Hub Tip: Select the Hub closest to your Shade.	Select Shade Type Tip: You cannot change this later.	Name your Shade Tip: Choose an easy name to remember or
\oplus	20 20 20 20 20 20 20 20 20 20 20 20 20 2	Rollers Remains Cellular	pronounce for future Voice control Living Master Room Kids Room Kids Room
Looks like you have no Shades setup			Dining Room Kitchen TV Room
		Awnings Drapes Drapes Left	Hallway Bathroom Guest Room
Once you have added some shades, you can start controlling them and adding them to scenes and timers.			Gym Toilet Outdoor
Add a Shade		Drapes Right Skylight Venetians Lifty/Tilt	Change Room Pool Alfresco
			Games Stairway Study Room
		Outdoor Shades Venetians Bottom Up Roller	Custom Shade Name
Herrer Bhades Rooms Connes Trans	Cancel Next	Back Next	Back Next
On the Shades screen select the 'Plus' icon to add a new shade.	From the list select the HUB you wish to pair the motor too.	Select which device type best represents your shade (NOTE this can't be changed later).	Select the shade name from the list or create a custom name. Press next.



your shade. The shade will respond

that its been paired.

If the pairing process was successful, Press 'Done" or pair another shade.

shade's individual channel (not Ch 0).

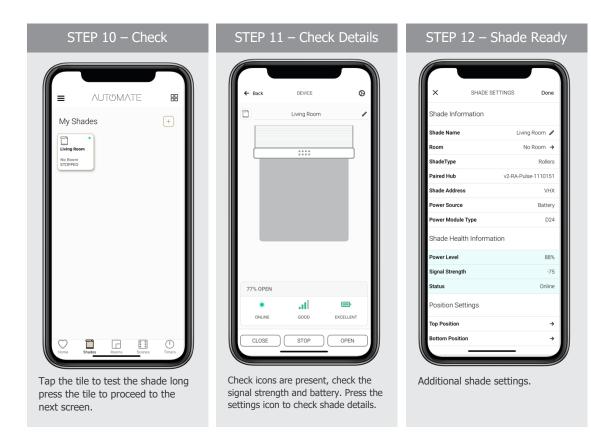
Remove the remote battery cover and press

the upper left P2 button Twice, then "Next".

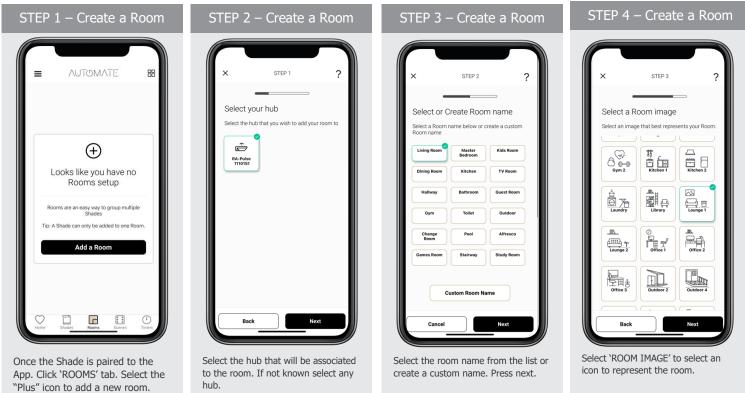
~2 seconds. The motor will jog up and down

'PAIR' on the app screen. Then press next.

once and you will hear one audible beep. Press



HOW TO CREATE A ROOM:

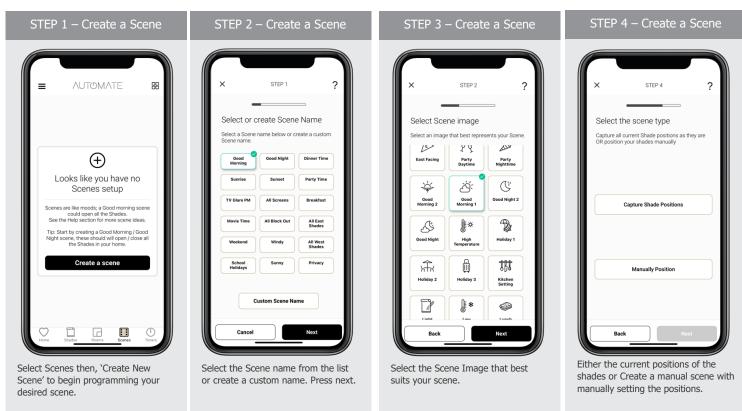


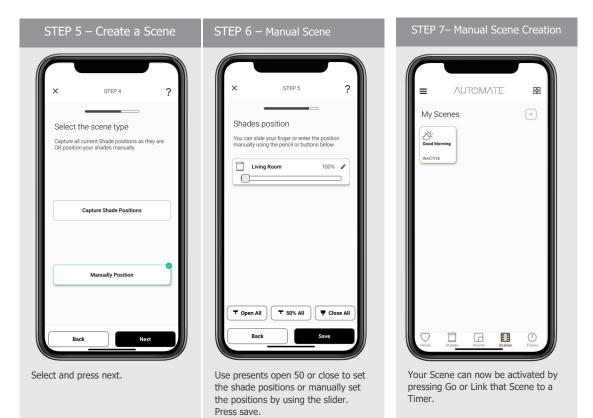
STEP 5 – Create a Room
X STEP 4 2
Select Shades
Select one or more shades for the room
Back Save
Coloct all the chades accepted to

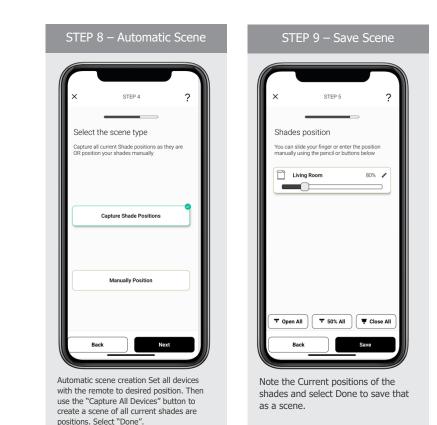
Select all the shades associated to that room. Then press Save.

HOW TO CREATE A SCENE:

You can create scenes to set a treatment or group of treatments to specific heights or capture all the devices that you previously moved to the desired position even from the App or using a remote.





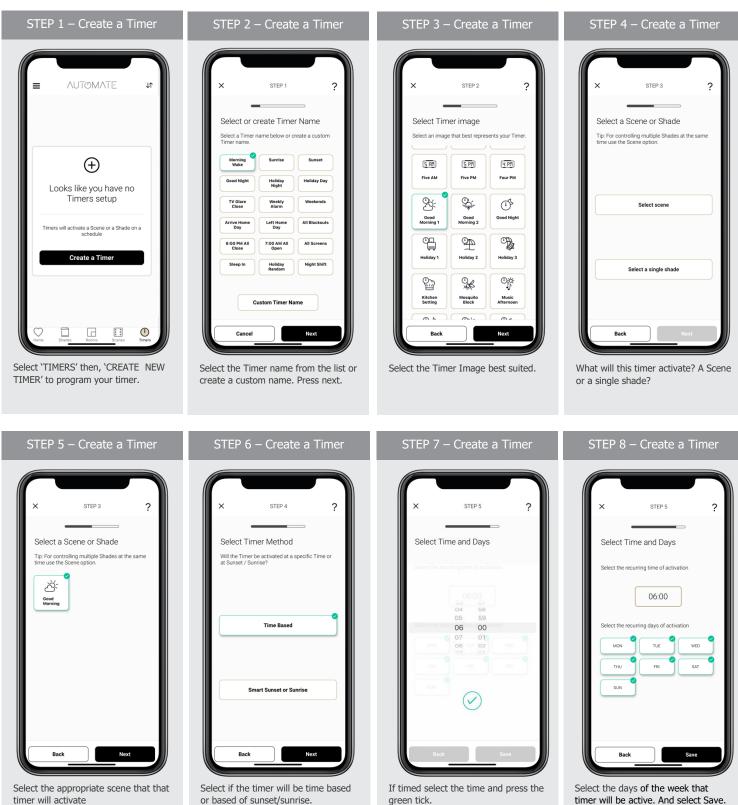


S

Start from Step

CREATING TIMERS:

You can program timers to trigger the specific operation of your shades and scenes at your desired times throughout the day.



STEP 9 – Create a Timer	STEP 10 – Create a Timer
X STEP 6 ? Done Create another Timer No Thanks	E AUTOMATE B Timers • PAUSE ALL TIMERS Warming Wate N
Create another timer or select No	Your timer has now been created and switched on.

Thanks.

USER MANUAL

TILE CONTROL:

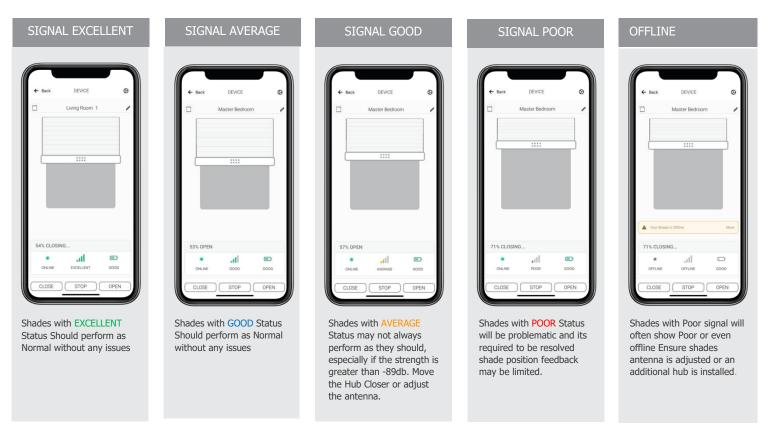




SHADE HEALTH, HELP, & OTHER:

Main Menu	Shade Health	Integrations	Help
X MENU EE	← Back Shade Health	← INTEGRATIONS BB	+ HELP BB
Home Current Location	Shades Signal Power	Connections	Hub Pairing Assistance
Home Ing Room	Bathroom EXCELLE 54%	Google Home	Hub Offline
Holiday ISED	Change Room GOOD 48%		Shades
+ Add New Location & Hub			Shade Issues
Shades & Health	Dining Room EXCELLE 50%		
	Jack's Bedroom AVERAGE 61%	ne	Customer Support ne
Integrations	Jen's Bedroom GOOD 51%	ins and	Contact Support ns and
& Connections	Living Room 1 EXCELLE 46%	pessible.	cessible.
Settings	Living Room 2 EXCELLE 54%		
A My Account	Master Bedroom GOOD 61%		
⑦ Help	Outdoor EXCELLE 54%		
⑦ What's New	Outdoor EXCELLE 54%		
① Version 3.0 <u>.0 (70)</u> es Timers		es Timers	es Timers
The main menu has access to changing locations Shade health, Alexa, Google Home links, Help what's new and the current app version number.	If any shades tiles highlight a red dot: From the main menu navigate to shade health. This will show a list view of all your shades and health in terms of power and signal strength.	Navigate from the main menu to find the integrations options. Discover our Alexa Skill or Google Home action via these links	Help is accessible in many ways for example during any setup of Hubs, Shades, Rooms Scenes or timers Simple press the ? icon or access the help. Further help can be access on the main menu

SIGNAL STRENGTH



HUB LED BEHAVOUR

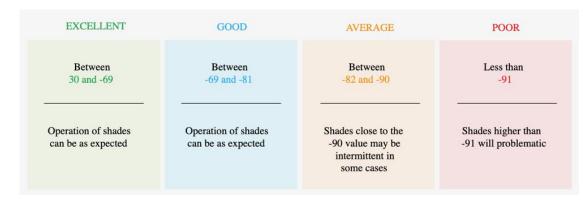
The light on your hub indicates a certain status. Below table indicates the colour of LED and what it means.

COLOUR	RESPONSE	STATUS
	Blue LED blinks one time a second:	Ready for Pairing
	Violet LED short blinks five times a second:	Firmware Updating
	Blue and Red LED blinks for 3-5 Seconds	Pulse received configuration via the app while pairing

	Blue LED is Solid	Connected to Internet (Paired)
•	Orange LED 1 times per second 10 times	Factory Reset Button Pressed (Paperclip Needed)
	-Red LED short blinks four times a second: (On for 100ms and off for 150ms).	Network Disconnected ISP down or Bumped from Network
	Red LED is solid	Hub not connected to Wifi (check within Range or if Bumped off Wifi)
-	Green LED Solid (On for 100ms and off 100ms)	While Pressing P Button on Hub Clear Cache and Ready for Pairing
	LED is Off	Hub is not connected to Power.
	LED's (Yellow and Green) are blinking on the back of the Hub	Hub supports Ethernet provisioning

SHADE HEALTH INDICATORS

Indicator	Shade Screen	Solution	Additional Solutions
Stairway No Room 24% OPEN	CLOSED ONLINE EXCELLENT EXCELLENT	System is operating as normal	If some shades don't operate or a timer has not run those shades may be offline.
	OPEN ONLINE POOR GOOD	Poor Signal – Adjust antenna and/or hub position.	 Shades with Low Battery Percentages may not Function Correctly. Try Charging the Battery Shades with Low Signal Strength may need the Hub to be Repositioned Closer
Kitchen OPEN	Low Battery. Please recharge battery.	Low Battery – Recharge battery.	Ensure Hub is Placed Flat and in Open Sight
	ONLINE EXCELLENT LOW	Shade Offline – Operate	((o)) Adjust Motor Antenna Cable for (o) Better Reception
Dining Room No Room OPEN	OPEN	shade from remote, power cycle the hub.	+1 Install a Second Hub if Required
	OFFLINE OFFLINE GOOD		



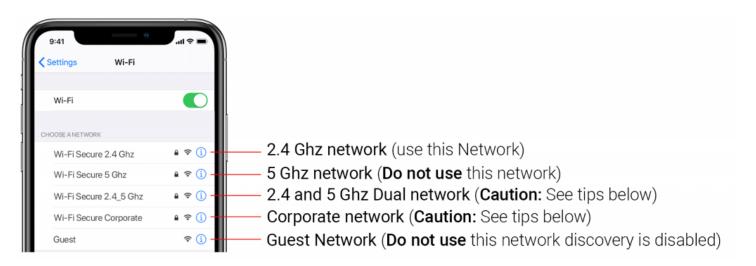
Troubleshooting Information

Not all Networks are compatible with the Pulse 2 Hub.

INCOMPATIBLE NETWORKS – WIRELESS

- 2.4 GHz Networks only!
- The Pulse 2 Hub must be connected to a 2.4 GHZ network.
- The Pulse 2 Hub CANNOT connect to a 5 GHz Network

THERE ARE 5 COMMON WIFI SETUPS NOTED BELOW:



5 GHz NETWORKS

The Automate Pulse2 Hub is not compatible with these networks. Turn OFF Autojoin to the 5 GHz network and 'Forget' that network. Connect to the 2.4 GHz network. (Only during the hub pairing process).

DUAL-BAND NETWORKS

A dual-band network means the 2.4 GHz network and 5GHz are combined into one. The phone will

automatically switch between the 2.4 GHz and 5 GHz band. If the phone is connected to the 5 GHz band the hub pairing process will fail.

RESOLUTION FOR DUAL NETWORKS:

Option 1

You can temporarily disable the 5ghz band in the Modem or Router settings while pairing the hub. Your Internet Service provider can guide you through this process.

Option 2

If you move far enough away from your modem the phone should connect to the 2.4 GHz band, allowing the pairing process to go through. This may not always work, so ensure you know the location of the router and move as far away as possible. If pairing failure persists, proceed with Option 1.

Option 3

Disable or your modem or router, create a hotspot with another device, name the hotspot and password identical to your dual-band network. Pair the hub to the hotspot. Now turn your modem back on and turn the hotspot off. This will allow you to connect to the Dual WiFi Network.



Current Wi-Fi Network

Temporary Hotspot

MULTIPLE ACCESS POINTS

In larger homes or corporate environments, pairing the hub while multiple access points are active can be troublesome.

Resolution:

Option 1

Disable the access points and pair to the modem only, re-enable the access points after pairing.

Option 2

Disable or your modem or router, create a hotspot with another device, name the hotspot and password identical to your network. Pair the hub to the hotspot. Now turn your modem back on and turn the hotspot off. This will allow you to connect to your WiFi Network.

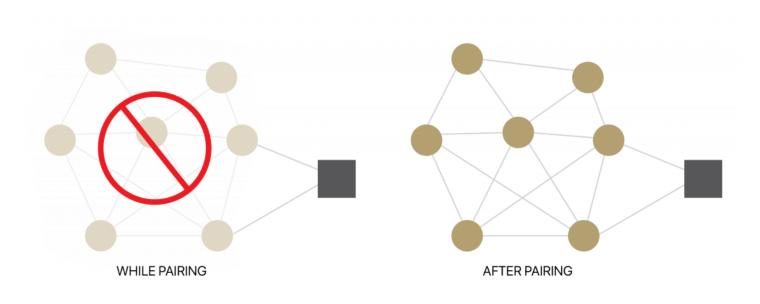
NETWORK SECURITY SETTINGS COULD BE INTERFERING WITH THE SETUP PROCESS. Ensure you are NOT on the Guest network. Guest networks have discovery mode switch off and is troublesome

GUEST NETWORK.

Some companies or homes have network security settings more advanced than the typical homeowner. If you are setting up in this environment, please consult your network administrator. Ensure you remove firewall during the pairing process or create a DHCP reservation. This is a permanent IP address assignment that is reserved. Using the Mac ID listed in under the Hub info, create a DHCP reservation to ensure that every time your hubs connects to your router, it will be given the same address.

SMART MESH NETWORKS

Mesh networks are becoming more common, which means you have a central router with Wireless Access Points (WAPs) around the home. Normally there are no issues, however on occasion it is required to deactivate all WAPs but the main router during the Pulse 2 pairing process.



For Mesh networks, you can often control the 2.4 GHz/5 GHz capabilities in the router app for your system and potentially disable access points if necessary. Ensure you find the manufactures instructions on how to do this, which will allow you to pair the hub. Then go ahead and return settings as normal

Common Mesh Systems:

- 1. Google Nest WIFI
- 2. Asus ZenWiFi AX (XT8)
- 3. Netgear Orbi
- 4. Netgear Orbi WiFi 6
- 5. Netgear Nighthawk MK63
- 6. Netgear Orbi AC1200
- 7. TP-Link Deco M5
- 8. Ubiquiti Amplifi HD
- 9. Linksys Velop

Shade Issues

UNDERSTANDING WIRELESS SIGNAL STRENGTH

This article will help you understand your signal strength and offer solutions on how to improve it.

If you have seen a message in the app, you may find yourself on this page, thinking about how you can go about resolving this. One common cause may be that the shade is simply out of range, in relation to the hub.

To explain signal strength in simple terms, talking to a friend at 50db in a library will mean your friend will have no problem hearing you even if he/she is serval feet away. However, talking to your friend at the same noise level in a sports arena may mean they won't hear you at all, and the sound won't travel that far. In order for your friend to hear you, you need to take away the noise (interference), stand closer or talk louder. This methodology can be applied to wireless devices; take the hub closer to the shade and remove the interference or boost the signal.

Within our advanced motors, we can record the Received Signal Strength. When the shade communicates with the hub it updates the last known Signal Strength (the raw value will be displayed in the settings menu for that device e.g. -76). If the Signal Strength value is between -50 to -81 the signal strength is excellent or good.

-60dB means it is in a good environment that has little interference while -95db means the signal needs is weak due to distance or interference.

We have made it easy for you to understand by ensuring the signal strength of the shade is shown in the device screen represented by one of these four categories; Excellent, Good, Average or Poor.

This indicator will also change color based on the table below. These values will fluctuate slightly as the hub or motor's environment degrades or gets better. If the signal strength is Average and 90 you may find it can worsen depending on the environment.

some cases, shades with Poor signal strength may seem to operate just fine, but it may not always report an accurate position due to a poor signal.

Shades higher than -97 are known to be inoperable, and should be addressed.

So now that you understand what this means, what contributes to low signal strength you ask?

Interference or low signal can be attributed to the following;

- 1. Physical obstructions in the home like concrete floors and walls
- 2. Metal infrastructure in home that absorbs the signal
- 3. Competing systems on the same radio frequency
- 4. Mirrors and (Windows Made from Low-E glass)
- 5. Baby monitors, Alarms, and doorbells
- 6. Other home appliances and devices.

SO, HOW DO YOU MAKE THE HUB OR SHADES PERFORM BETTER?

You have two options; you can move the hub closer but remember that can impact other shades, so before we do that let's adjust / check the antenna on the shade itself.

ADJUSTING THE MOTOR ANTENNA

The Automate Pulse2 Hub is not compatible with these networks. Turn OFF Autojoin to the 5 GHz network and 'Forget' that network. Connect to the 2.4 GHz network. (Only during the hub pairing process).

Our motors can send and receive signals, it may be the hub sends the signal without any issues but it may be when the motor sends the hub a signal, it gets lost.

Adjusting the antenna on the motor will certainly help, and we found even a minor adjustment can improve or degrade the strength by 25%.

Some motors allow you to wrap the antenna around the head of the motor, in which you can still keep it wrapped but you may need to slightly expose the antenna. See some illustrations and tips on how this can be done.

NOTE: In some instances the antenna may get caught up in the fabric, so ensure it is free when moving the shade up and down.

QUESTION: I'VE ADJUSTED THE ANTENNA AND IT'S IMPROVED, BUT IT'S STILL NOT SATISFACTORY;

MOVE THE HUB

The simple thing to do is invest in a second or even a third hub, allowing the system to operate as one.

But before you invest in a second hub, let's try some of the options listed below.

In some cases, moving the hub improves some shades but degrades others. After you adjusted or tried any of these options, be sure you check the signal strength of all the shades, as it may have improved one but degrade another. *Tip: Connect the hub into a power bank that allows you to place the hub anywhere while testing.*

Tips	Potential Result
Always deploy the hub in a horizontal position. The hub antenna was designed to have a better performance to spread the signal when the hub is placed horizontally.	could add +/- 5- 15% strength
Ensure the hub is in the open environment and not covered	could add +/- 5- 15% strength
Simply rotating the hub 90 degrees while still flat on the surface could have a small impact and make the difference required.	could add +/- 2- 5% strength
Move the hub a foot or two higher and check again. If the hub is too high, maybe move it lower. We recommend placing the hub no lower than 20 inches or 50cm from the floor. You may want to try a few options here and test the performance.	could add +/- 10- 20% strength
Then more drastic things you can do is move the hub closer to the affected shade. Often problematic shades (a lot of interference) need to be a lot closer than others. Move the hub and check the affected shade to see if the performance has improved.	could add +/- 10- 20% strength
Check the path of the signal from the hub to check the motor. If there are any items made of metal e.g. TV or microwaves or even an aquarium), try to move the hub to avoid these paths	could add +/- 2- 5% strength
You could have other radio frequency interference, and you have 20-30 shades connected to one hub which may mean you may need an additional hub, to allow a stronger signal strength per hub and ultimately spread the load.	could add +/- 10- 20% strength

REPEATERS

Repeaters are great if you have 1 or 2 problematic shades, they will assist to boost the signal. However when there are more than 2 problematic shades, and you tried all of the above with no success, need to install a second hub.

In some rare cases, it's found repeaters degrade the overall performance as it makes the signal path of some shades longer and creates additional unnecessary interference.

Tips

- Change the orientation of the repeater. Some environments require you to point the repeater vertically while others need horizontal orientations.
- Try putting the repeaters in other rooms
- Never use more than 2 repeaters per home.

CHARGE YOUR MOTOR

If you see the low battery icon, it may mean it is time to charge your motor. A depleted battery may also impact the signal strength, so ensure your shades are fully charged.

Hub Offline Assistance

Your hub should always be connected to the internet.

• A blinking red light means there is no internet connection. This can happen when your Internet Service Provider (ISP) has an interruption of service. Check other internet devices connected to your Wifi network. If they have lost internet access as well, then contact your ISP. Sometimes a simple power cycle of your router can fix this issue for all devices on your network.

• If the Red light is solid, it means the hub is not able to detect the Wifi network it was configured to. This often happens because the hub is placed too far away from your Wifi router. Try reconnecting your hub closer to your Wifi router with as few obstructions as possible. Be mindful that moving your hub can reduce the signal strength to some of your paired shades. RF repeaters or an additional hub may be required if you notice reduced performance from your shades after moving your hub.

• No light illuminated on your hub means the hub is not getting adequate power. Ensure you are powering the hub with the included Micro USB cable and power brick. Ensure the hub is connected to a power outlet in your home and not devices that could provide intermittent power like computers or televisions. Test the power outlet with a different electrical device to ensure the outlet is providing adequate power. Certain router configurations can interfere with the hub's internet connection. These include:

• Router IP limits. Some Wifi routers limit the number of devices that may be connected to it at one time. Check your router settings. You can create a permanent DHCP reservation to ensure your hub never gets kicked off your router due to limits. Review your router's manual or contact their support for more info.

• Newly placed Firewalls or other security measures can block the hub from properly connecting to the internet. Try whitelisting your hub's IP address within your router settings and see if the behaviour improves. Review your router's manual or contact their support for more info.

• If your hub is connected to your Wifi router via an ethernet cable, ensure you have a solid connection. Try connecting to a different ethernet port on your Wifi router if available. If you are connecting your hub to a third-party integration (BEMO, Control4) via ethernet, ensure that third-party device is connected to your router and provides internet access via its ethernet port.

LEGAL

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.

Caution: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions: (1) This device may not cause interference. (2) This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

1) L'appareil ne doit pas produire de brouillage;

2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- -Reorient or relocate the receiving antenna.
- -Increase the separation between the equipment and receiver.
- -Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-Consult the dealer or an experienced radio/TV technician for help.

To satisfy FCC&IC RF exposure requirements, a separation distance of 20cm or more should be maintained between the antenna of this device and persons during device operation. To ensure compliance, operations at closer than this distance is not recommended.

Les antennes installées doivent être situées de facon à ce que la population ne puisse y être exposée à une distance de moin de 20 cm. Installer les antennes de facon à ce que le personnel ne puisse approcher à 20 cm ou moins de la position centrale de l' antenne.

Limited by local law regulations, version for North America does not have region selection option.