

# dollar curtains+blinds

## Pulse PRO | Set up Instructions for iOS

The PRO 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. Scene control - Personalize shade control and organize how your shades operate by specific daily events.
4. Timer functionality - Set and forget. Lower, raise and activate shade scenes automatically at the optimal time.
5. Sunrise and Sunset - Utilizing time zone and location, the PRO can automatically raise or lower Automate shades according to the position of the sun.
6. Compatible IoT Integrations:
  - Amazon Alexa
  - Google Home
  - IFTTT
  - Smart Things
  - Apple HomeKit

### GETTING STARTED:

In order to experience automated shade control through the dc+b Control App, you will need to have:

- Downloaded the free dc+b Control App via the Apple App Store (available under iPhone apps) or iPad apps for iPad devices.
- Purchased one or more PRO'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 PRO to that location. Our step-by-step guide will explain in more detail.

### WI-FI PRO TECHNICAL SPECIFICATIONS:

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

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

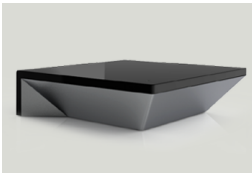
- Only pair your PRO via 2.4GHZ Wi-Fi (Lan Pairing is not supported) Do not connect ethernet to the PRO.
- The PRO must be within signal range of both the automated shades and 2.4GHZ Wi-Fi.
- Ensure 5Ghz are disabled on your Wi-Fi router or disconnected from your mobile device.
- Check your phone and 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 PRO in a horizontal position. (avoid metal enclosures / ceiling or any other locations that may affect the range.
- Before starting the PRO 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 PRO in your installation.
- Add additional repeaters if is required (Only two per PRO).

### CAPABILITIES:

- Motors per PRO: 30
- Locations per account: 5

- PRO's per location: 5
- Rooms per Location: 30 per PRO
- Scenes per PRO: 20 (100 per location)
- Timers per PRO: 20 (100 per location)

## WHAT'S IN THE BOX?



**A.**  
Automate PRO



**B.**  
USB Power  
Supply



**C.**  
32" (80cm) USB  
Power Cord



**D.**  
Ethernet cable

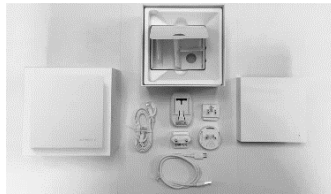


**E.**  
Quick Start Guide

## UNPACKING THE PRO 2.0:



**1.** Unpack the PRO.



**2.** Check the Box Contents.



**3.** Plug the USB  
Cord into the  
Power Supply



**4.** Connect the Micro  
USB end into the  
back of the PRO



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

## APP NAVIGATION:

Home Page




**Home:** Shows the main control screen with rooms and devices tabs  
**Favorites:** Allows you to create a list of your favorite Devices or Scenes

**Scenes:** Show a list of scenes created  
**Timers:** Show a list of scene timers

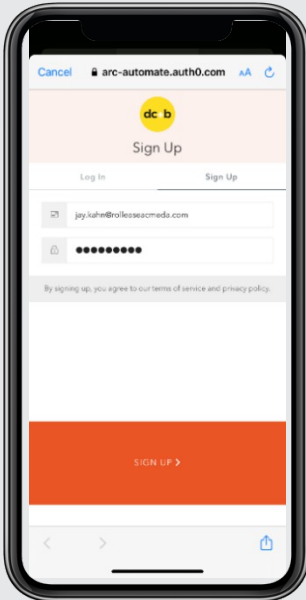
**App Version:** 2.5

STEP 1 - Open the App



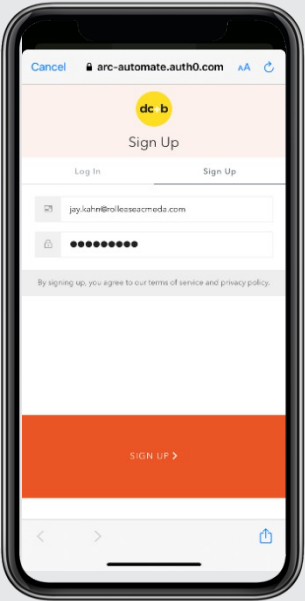
Open the dc+b Control mobile App.

STEP 2 - Sign Up



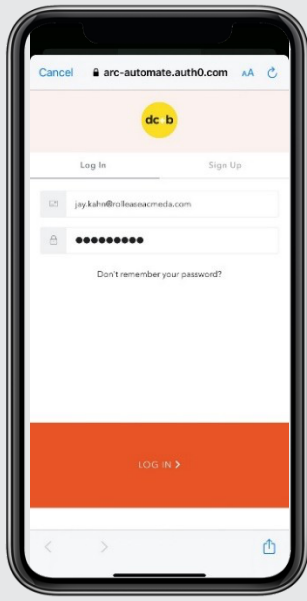
If required, create a new account. Select Sign Up on the Top Right corner of the screen.

STEP 3 - Sign Up



Creating an account will require an email address and password

STEP 4 - Sign In

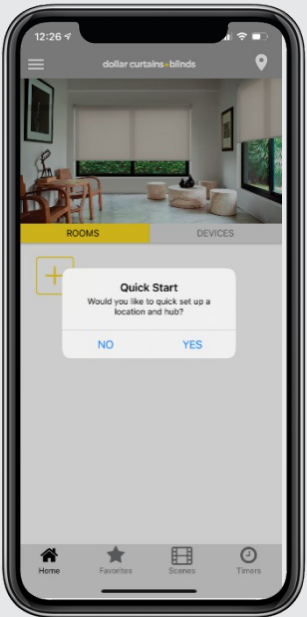


If you already have an account Log in with your account information.

### QUICK START SETUP:


NOTE: You cannot pair the PRO via the Ethernet cable connection, Wi-Fi only via a 2.4GHZ connection. Refer to troubleshooting for more information.

STEP 1 - Quick Start




Please power up the PRO then follow the Quick Start guide. Select "YES".

STEP 2 - Add



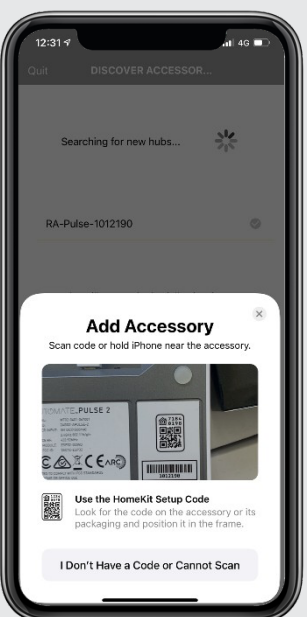
You can create a name for your location or select "Next" to use the Default "My house".

STEP 3 - Add PRO



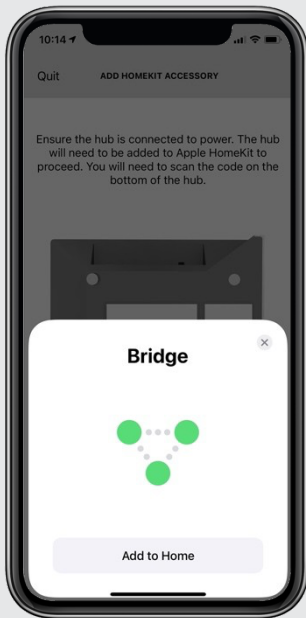
Ensure the PRO is connected to Power. The PRO will now be added to HomeKit

STEP 4 - Scan PRO



Scan the QR Code on the bottom of the PRO to sync with

## STEP 5 - HomeKit



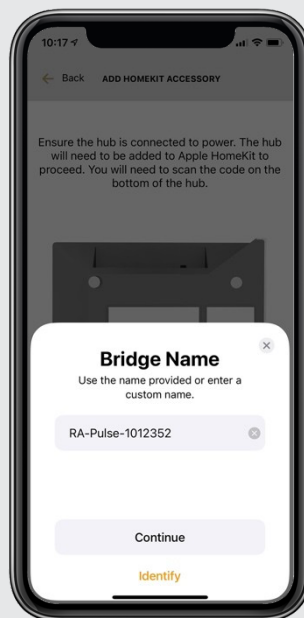
The PRO has successfully been discovered and ready to be added into HomeKit

## STEP 6 - HK Location



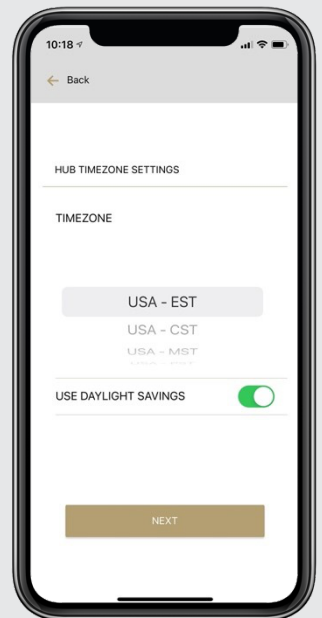
Select the Location where the PRO will be placed. Select Continue

## STEP 7 - Name PRO



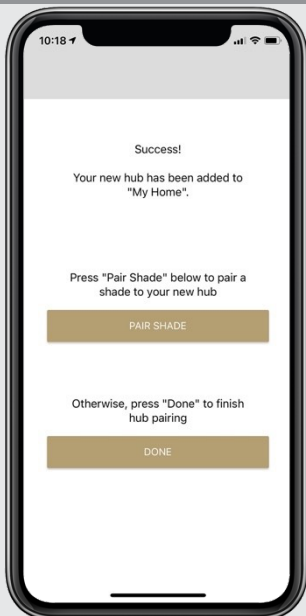
If you have more than one PRO you may want to give the PRO a Unique Name. Select Continue

## STEP 8 - PRO Time zone



Scroll Up and down to select the Time Zone for the PRO and if you want to use Daylight Savings

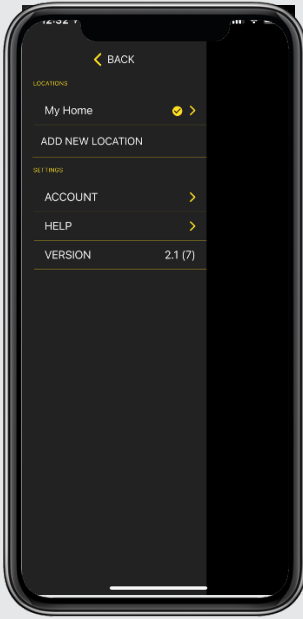
## STEP 9 - Setup Complete



The PRO is ready to be used! Press 'DONE' to start the Application. Or Select Pair Shade to setup your first Shade

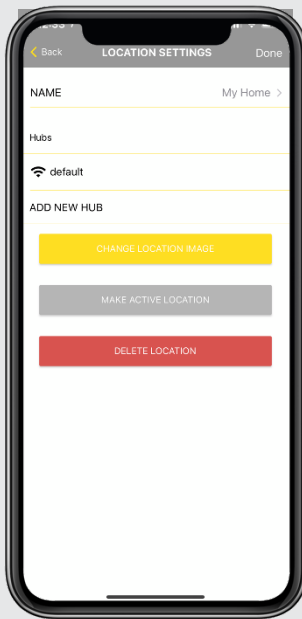
## ADDING ADDITIONAL PRO TO EXSITING LOCATION:

### STEP 1 - Configure a PRO



Select menu then the desired location to add a new PRO to.

### STEP 2 - Add PRO



Click on "ADD NEW PRO" to start the process to setting up your PRO on the App.

### STEP 3 - New PRO



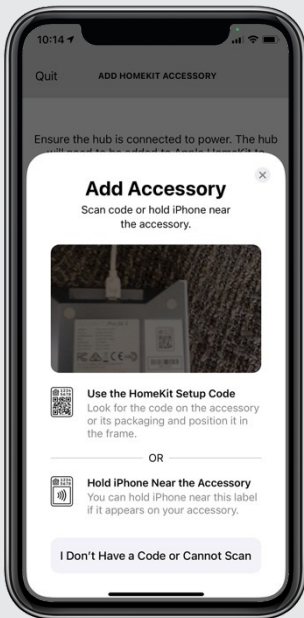
Select "connect to new PRO"

### STEP 4 - Add a PRO



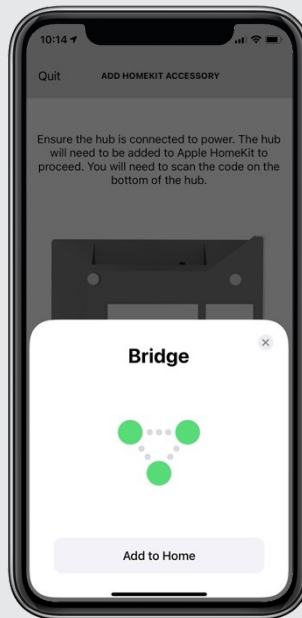
Ensure the PRO is connected to Power. The PRO will now be added to HomeKit

### STEP 5 - Scan PRO



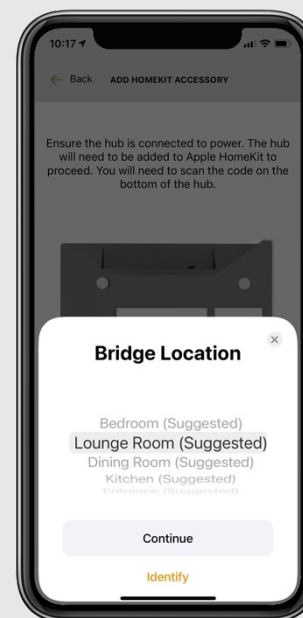
Scan the QR Code on the bottom of the PRO to sync with HomeKit.

### STEP 6 - HomeKit Discovery



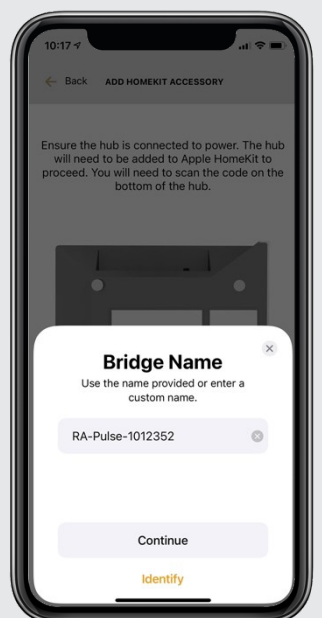
The PRO has successfully been discovered and ready to be added into HomeKit

### STEP 7 - HK Location



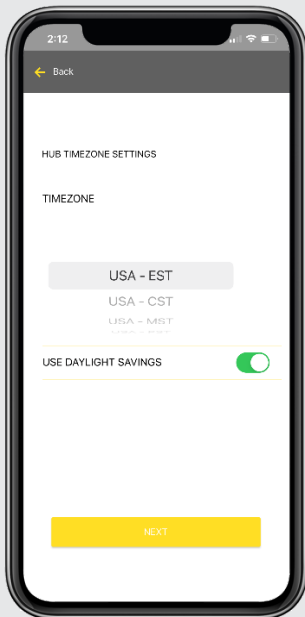
Select the Location where the PRO will be placed. Select Continue

### STEP 8 - Name PRO



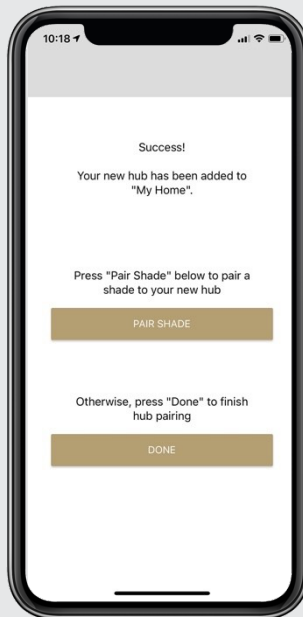
If you have more than one PRO you may want to give the PRO a Unique Name. Select Continue

## STEP 9 - PRO Time zone



Scroll Up and down to select the Time Zone for the PRO and if you want to use Daylight Savings

## STEP 9 - Setup Complete



The PRO is ready to be used! Press 'DONE' to start the Application. Or Select Pair Shade to setup your first Shade

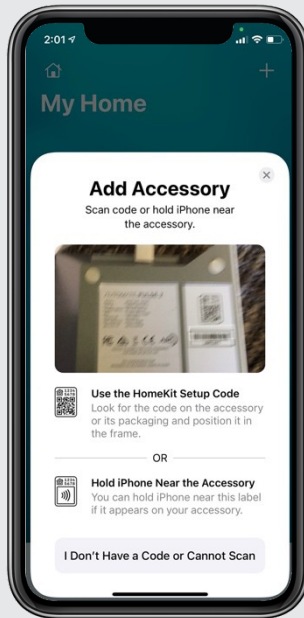
## CONFIGURATION IN APPLE HOMEKIT MANUAL OR SCANNED

### STEP 1 - Open HomeKit App



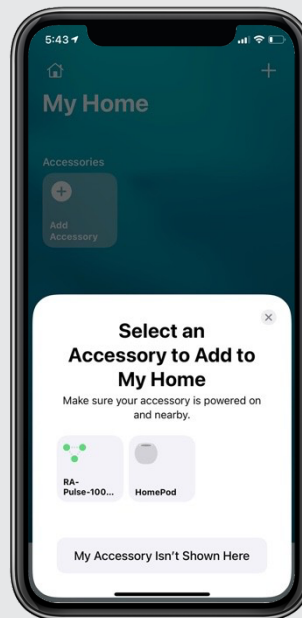
Open the Home App

### STEP 2 - Scan PRO



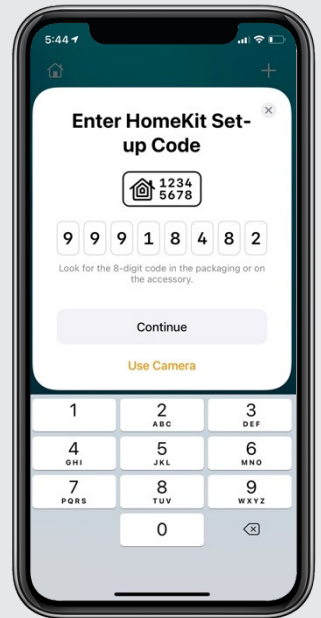
Scan the QR code at the bottom of the PRO. If the Code does not scan select "I don't have a Code or cannot scan"

### STEP 3 - Select PRO



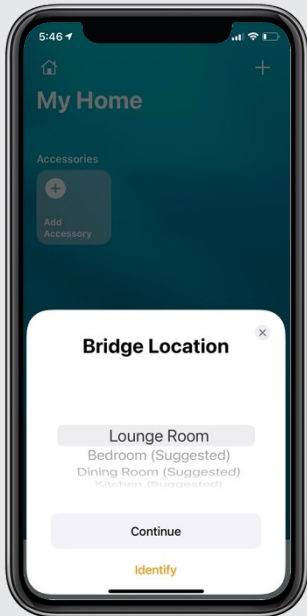
Select the RA Pulse ... Device

### STEP 4 - Manual Code Entry



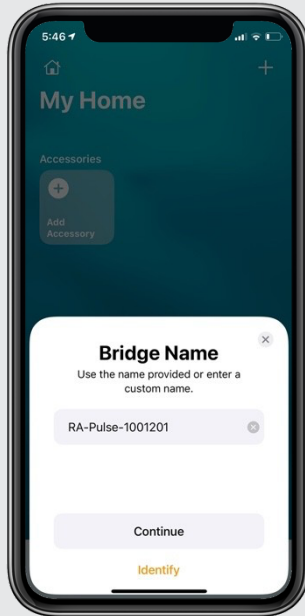
Manually enter the 8 Digit Code located underneath the PRO

#### STEP 1 -Select PRO location



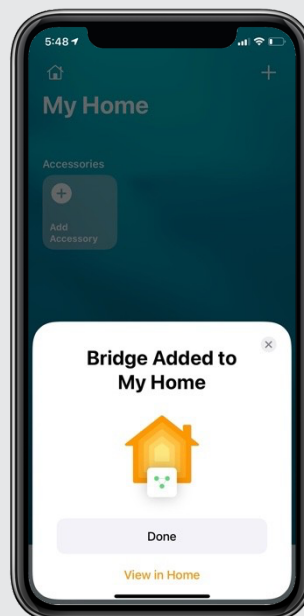
Select the location where the PRO will be installed in

#### STEP 2 - Configure a PRO



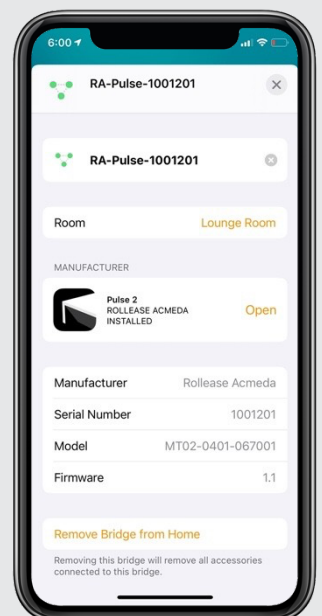
Enter and Unique Name for your PRO

#### STEP 3 - Configure a PRO



Setup complete select view in Home

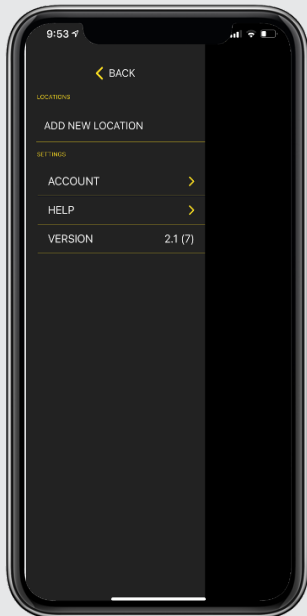
#### STEP 4 - Configure a PRO



Verify PRO

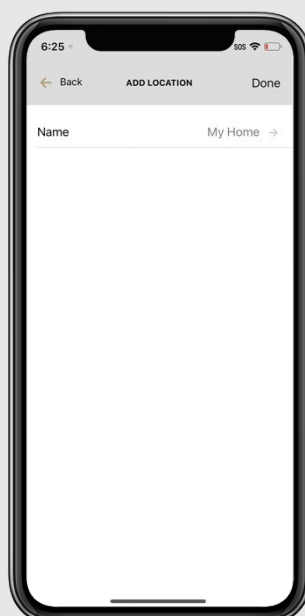
### CREATING A LOCATION:

#### STEP 1 - Add Location



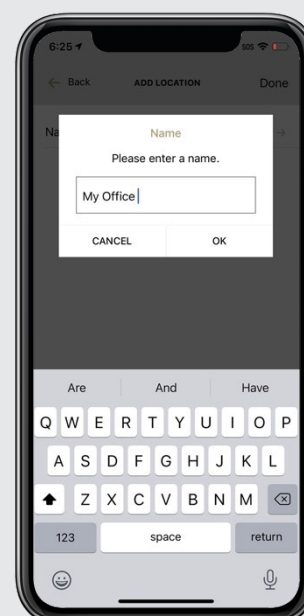
Open the App from the home screen and select the menu button, click "ADD NEW LOCATION".

#### STEP 2 - Add Location



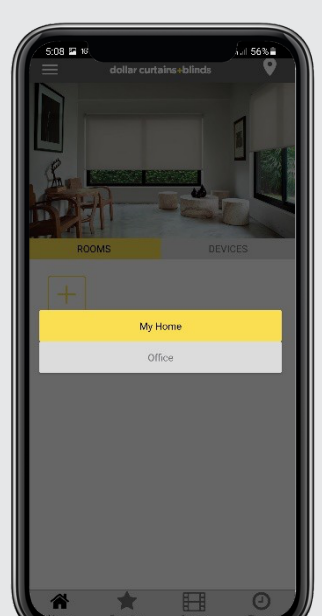
Select the Default My Home Name

#### STEP 3 - Update Name



Change Description of the Location

#### STEP 4 -Toggle

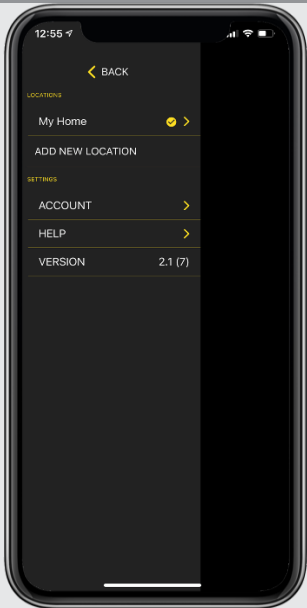


Select the Location Icon in the top right to toggle between locations




## ADDING CUSTOM HOME IMAGE:

STEP 1- Custom Home Image



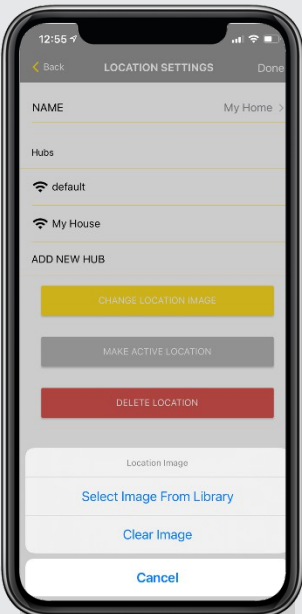
From the main menu select the location you wish to change the home image for.

STEP 2- Custom Home Image



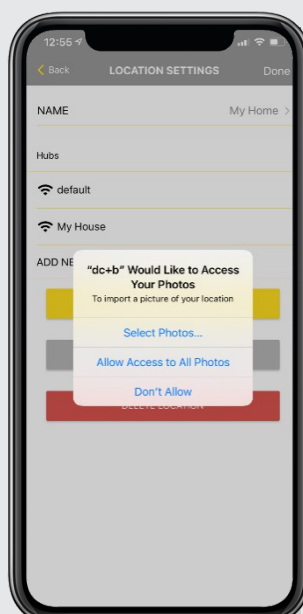
Select "Change Location Image".

STEP 3- Custom Home Image



Choose to "Select Image from Library"

STEP 4- Custom Home Image

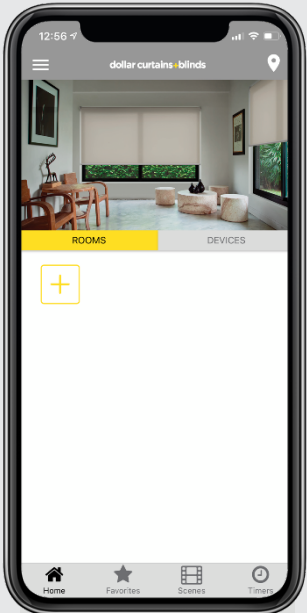


You will need to Allow PRO access to import your image

## HOW TO PAIR A MOTOR TO THE APP:

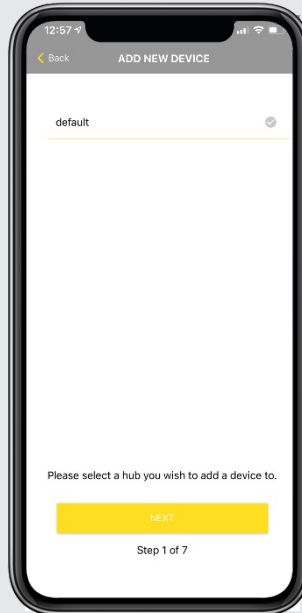
During the setup, the PRO may need to be moved room to room during the pairing process. We recommend setting up your motors with a remote prior to syncing with the App.

STEP 1 - Pair a motor



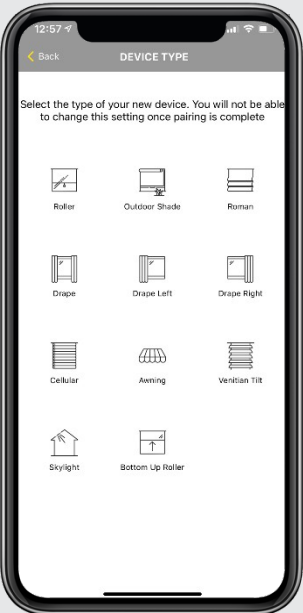
On the home screen select 'DEVICES' then select the 'Plus' icon to add a new shade.

STEP 2 - Pair a motor




From the list select the PRO you wish to pair the motor too.

STEP 3 - Pair a motor



Select which device type best represents your shade. (NOTE this can't be changed later)

STEP 4 - Pair a motor



Make sure the shade device is plugged in or ready to be paired and select 'NEXT'

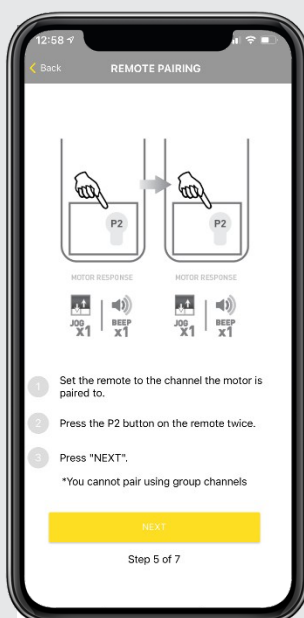


## STEP 5 – Pair a motor



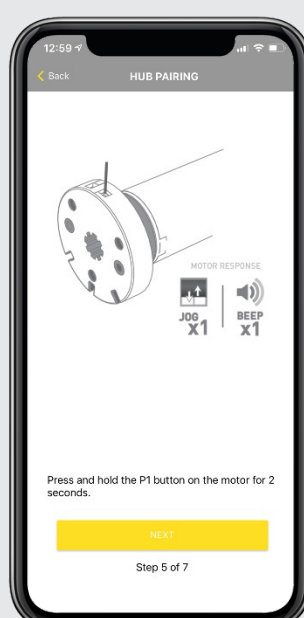
Choose your pairing method: 'PAIR USING A REMOTE' or 'PAIR WITHOUT REMOTE'

## STEP 6 – Pair with Remote



Make sure the remote is tuned to the shade's individual channel (not Ch 0). Remove the remote battery cover and press the upper left P2 button Twice, then "Next".

## STEP 7 – Pair without Remote



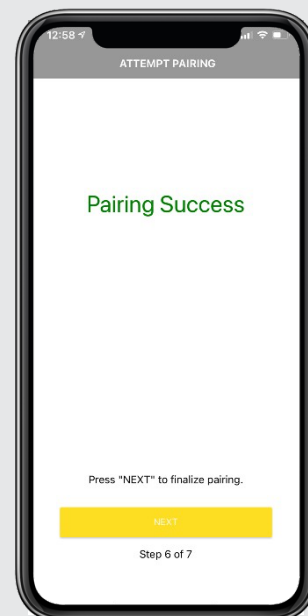
Press and hold the P1 button on the motor head ~2 seconds. The motor will jog up and down once and you will hear one audible beep. Press 'PAIR' on the app screen.

## STEP 8 – Pair a motor



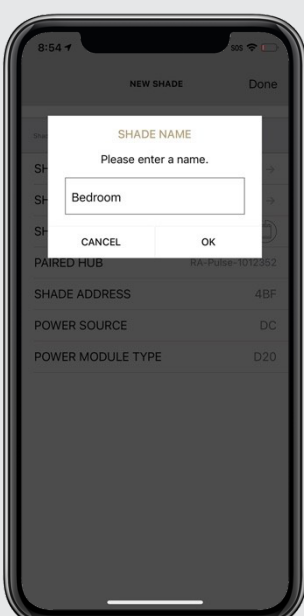
Wait as the app searches for the new device.

## STEP 9 – Pair a motor



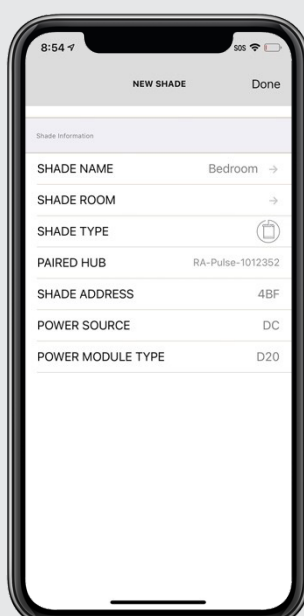
If the pairing process was successful, Press 'NEXT' to finalize pairing. If pairing fails, try the process again.

## STEP 10 – Shade Details



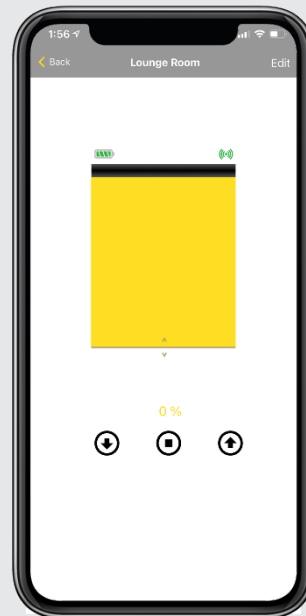
Input a Device Name to customize your shade name. Press "OK"

## STEP 11 – Pair a motor



The "New Device" data will be displayed Press done to Test this Shade

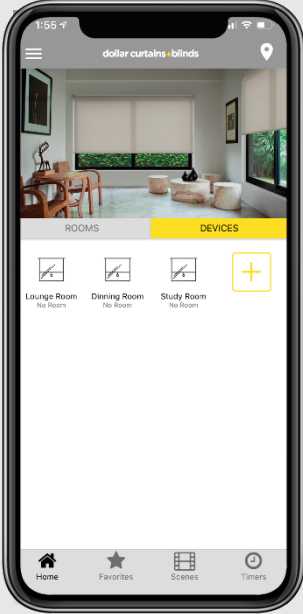
## STEP 12 – Shade Ready



Shade that was paired will open ready for testing.


HOW TO OPERATE SHADES:

STEP 1 - Operate Shade



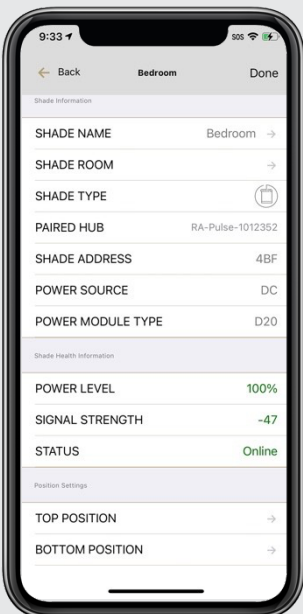
Select the device that you wish to operate.

STEP 2 - Open a shade




Close or open the shade by pressing the “Arrows” or Stop icon or scrolling the Gold line to the percentage required.

STEP 3 - Close a shade



From the device window if you select “Settings” icon you can see all the motors device settings and the device health information.

Battery Health

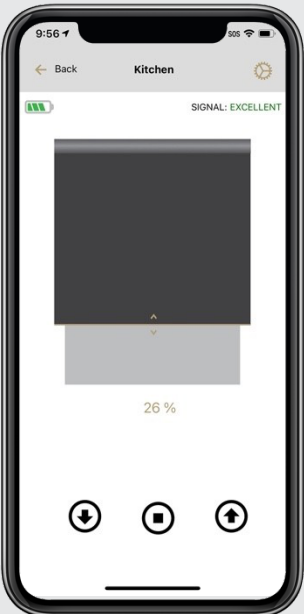


Top left corner, there is the battery icon – This icon has 4 levels. Full, Medium, low empty.




DEVICE SIGNAL / HEALTH INFORMATION:

Signal Excellent




Shades with **EXCELLENT** Status Should perform as Normal without any issues

Signal Good



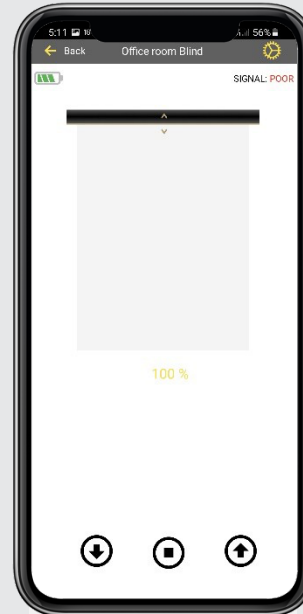
Shades with **GOOD** Status Should perform as Normal without any issues

Signal Average



Shades with **AVERAGE** Status may not perform as they should, if shades are unresponsive this could be the issue

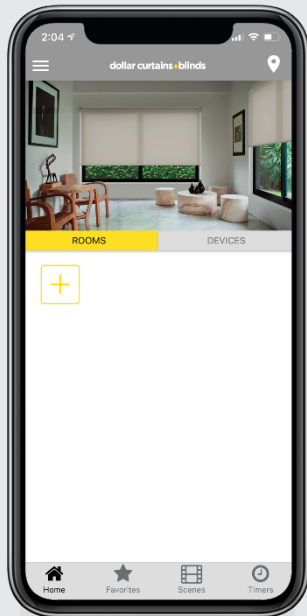
Signal Poor



Shades with **POOR** Status will be problematic and its required this is resolved.

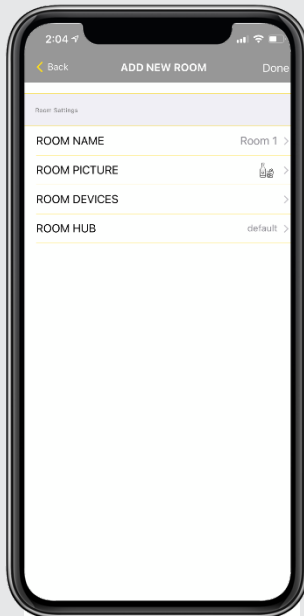
## HOW TO CREATE A ROOM:

### STEP 1 - Create a Room



Once the Shade is paired to the App. Click 'ROOMS' tab. Select the "Plus" icon to add a new room.

### STEP 2 - Create a Room



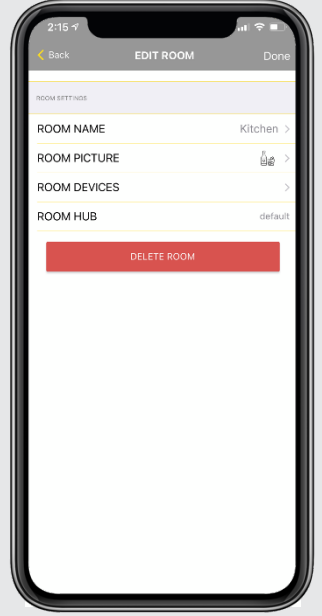
Select the 'ROOM NAME' to enter the desired room name.

### STEP 3 - Create a Room



Enter the Room Name and click "OK".

### STEP 4 - Create a Room



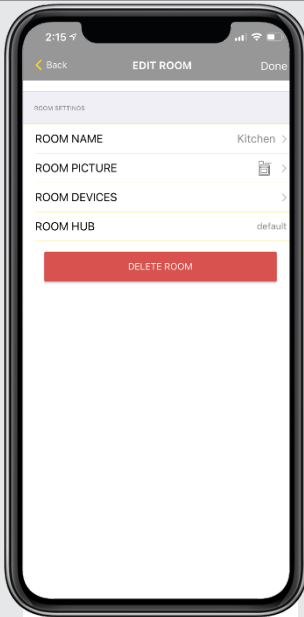
Select 'ROOM PICTURE' to select an icon to represent the room.

### STEP 5 - Create a Room



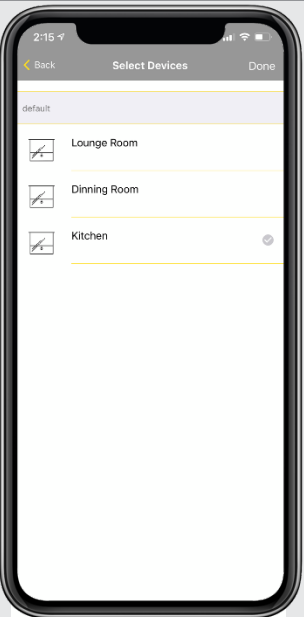
Select the appropriate icon for the Room.

### STEP 6 -Add Shades to a Room



Select 'ROOM DEVICES' to add a new device to the room.

### STEP 7 -Add Shades to a Room



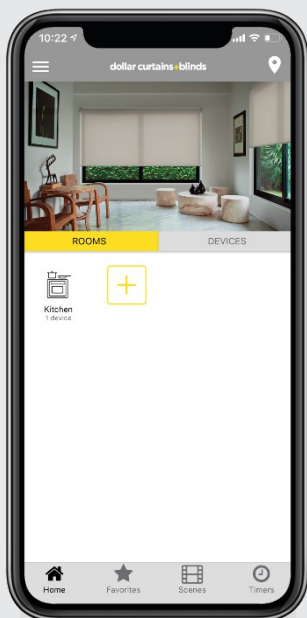
Select the devices you wish to be added to the room.

### STEP 8 -Add Shades to a Room



Press 'DONE' to complete the setup of the room

#### STEP 9 -Add Shades to a Room



Wait for the App to conclude the process of room set up.

#### STEP 10 - Operate a Room



Select the Room to operate All shades that have been added to the room at the same time. Open Close or Custom Percentage

### HOW TO CREATE A SCENE:

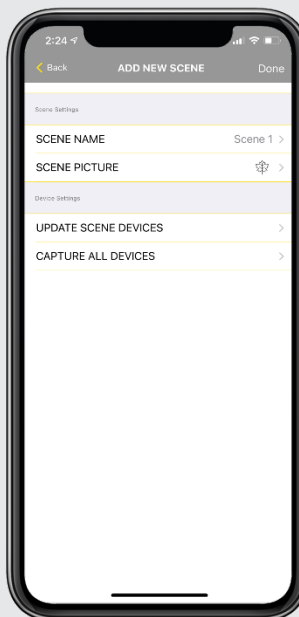
You can create scenes to set a treatment or group of treatments to specific heights or capture all the devices that you previously moved to the desired position even from the App or using a remote.

#### STEP 1 - Create a Scene



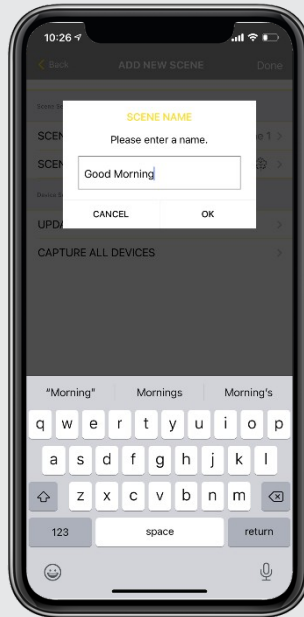
Select Scenes then, 'Add New Scene' to begin programming your desired scene.

#### STEP 2 - Create a Scene



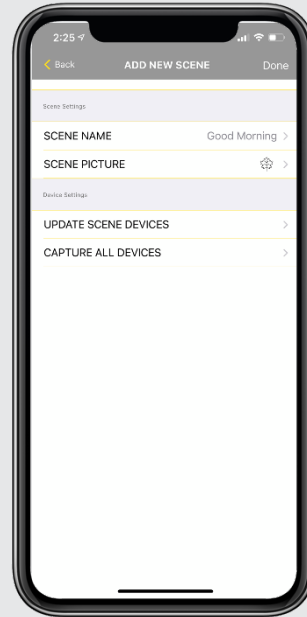
Select the 'SCENE NAME' to customize the name of your scene.

#### STEP 3 - Create a Scene



Input your scene name.

#### STEP 4 - Create a Scene



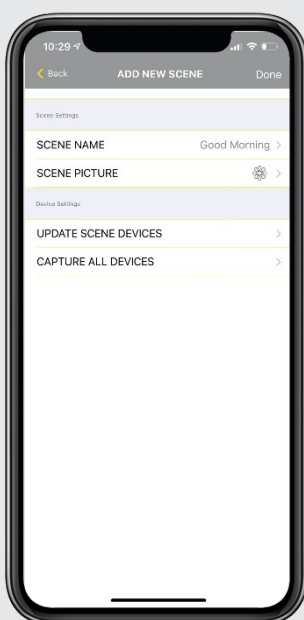
Select 'SCENE PICTURE' to customize the icon for your scene.

#### STEP 5 - Create a Scene



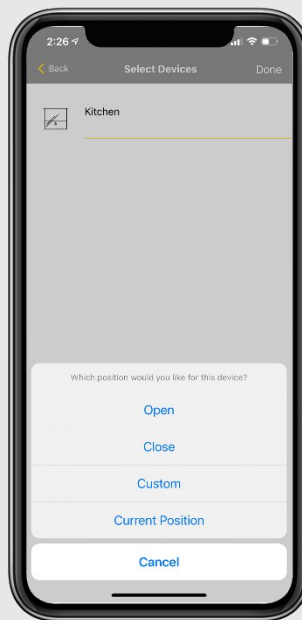
Select the icon that represents your scene.

#### STEP 6 - Manual Scene Creation



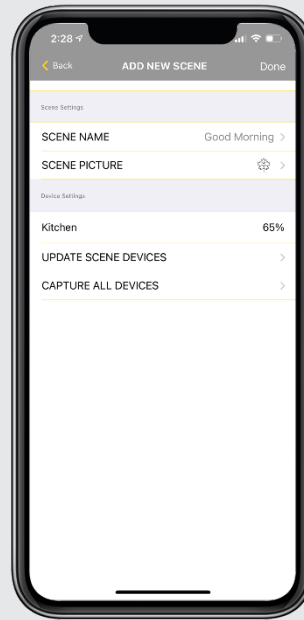
Or Select 'UPDATE SCENE DEVICES' to add devices into the Scene.

#### STEP 7 - Manual Scene Creation



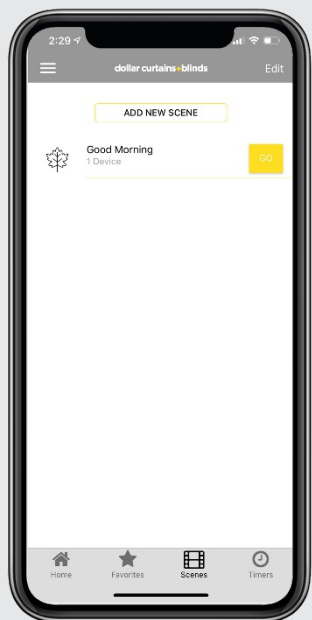
Choose custom heights (by %) or set open/close for all selected window treatments.

#### STEP 8 - Manual Scene Creation



Repeat for all shade in that scene. Set the shade height percentage if necessary. Select 'DONE' to create your scene.

#### STEP 9 - Manual Scene Creation



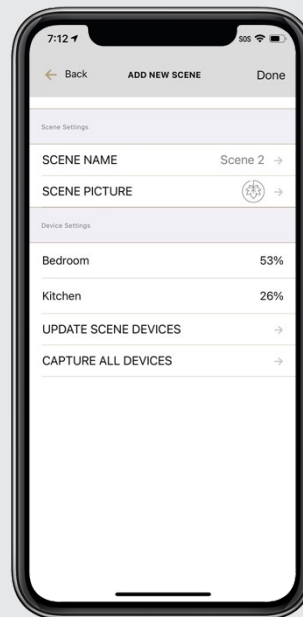
Your Scene can now be activated by pressing Go or Link that Scene to a Timer

#### STEP 10 - Automatic Scene



Automatic scene creation Set all devices with the remote to desired position. Then use the "Capture All Devices" button to create a scene of all current shades are positions. Select "Done".

#### STEP 11 - Save Scene



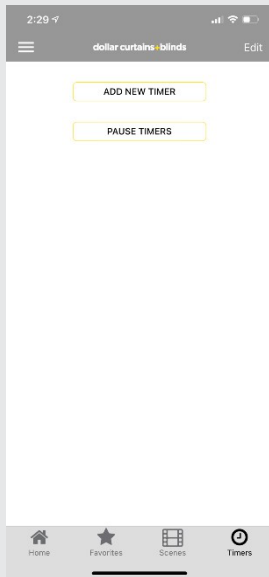
Note the Current positions of the shades and select Done to save that as a scene

Start from Step 6

## PROGRAMMING TIMERS:

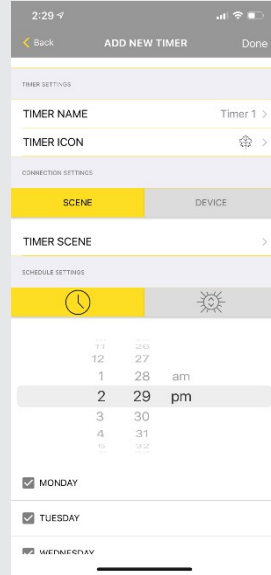
You can program timers to trigger the specific operation of your shades and scenes at your desired times throughout the day.

### STEP 1 - Create a Timer



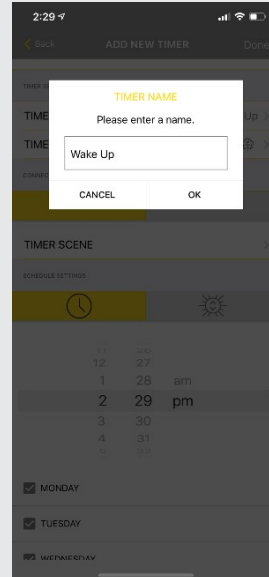
Select 'TIMERS' then, 'ADD NEW TIMER' to program your timer.

### STEP 2 - Create a Timer



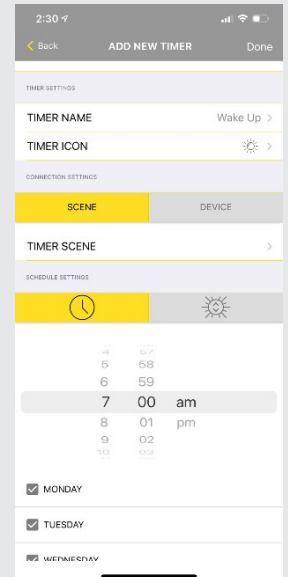
Select 'TIMER NAME'.

### STEP 3 - Create a Timer



Input your desired timer name.

### STEP 4 - Create a Timer



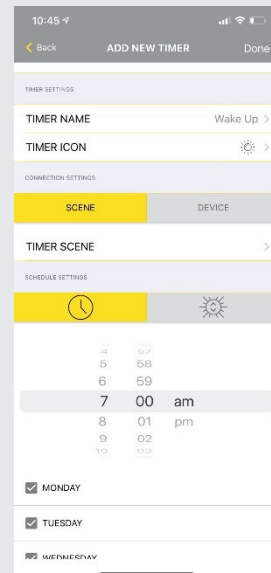
Select 'TIMER ICON' to add an icon for your timer.

### STEP 5 - Create a Timer



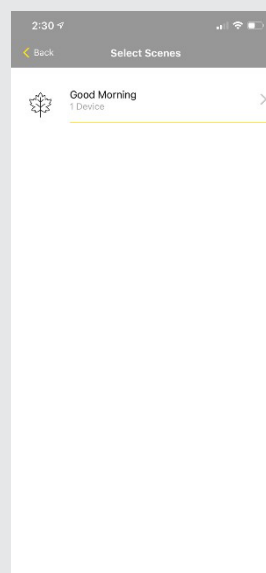
Select the appropriate icon for the Timer.

### STEP 6 - Create a Timer



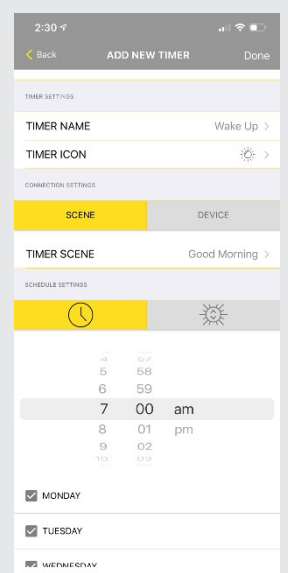
Select the 'TIMER SCENE' to choose the scene you wish the timer to activate.

### STEP 7 - Create a Timer



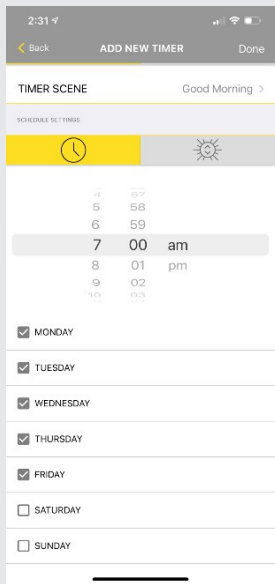
In the Scene list, add the scenes you wish to operate.

### STEP 8 - Create a Timer



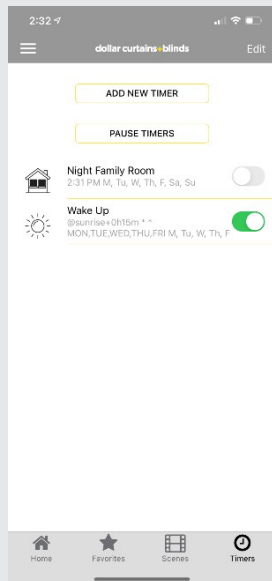
Set the time you wish the timer to trigger shade control.

### STEP 9 - Create a Timer



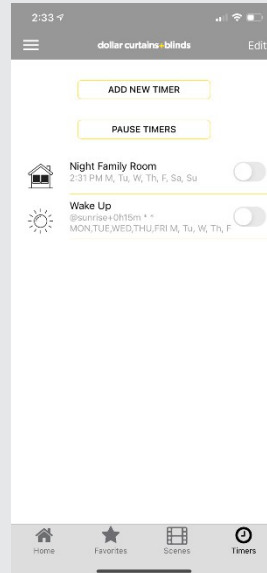
Select the days you wish the timer to operate.

### STEP 10 - Create a Timer



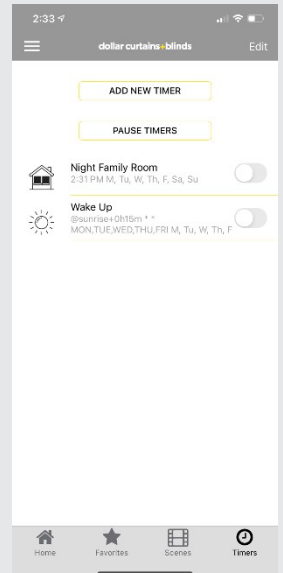
Your timer has now been created and switched on

### STEP 11 - Enable /Disable Timer



Your timers can be manually enabled and disabled by toggling the switch for each timer.

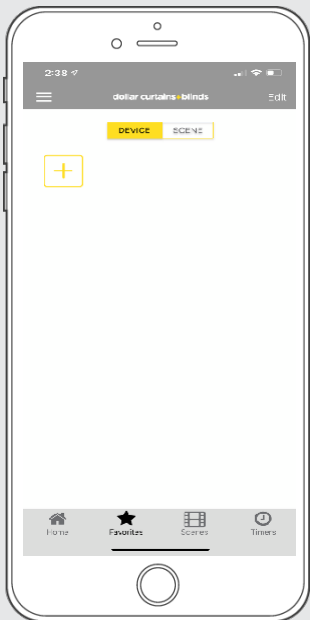
### STEP 12 - Pause/Un-Pause Timer



Your timers can be paused and un-paused to switch all timers on and off at the same time.

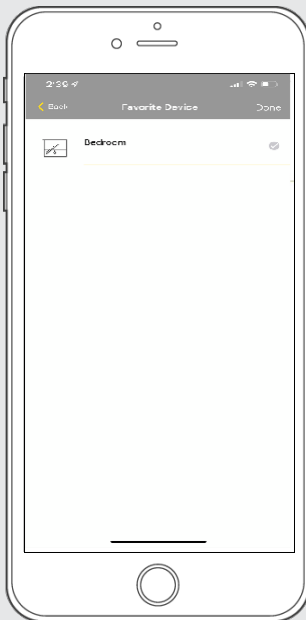
## HOW TO CREATE FAVORITE:

### STEP 1 - Create a Favorite Device



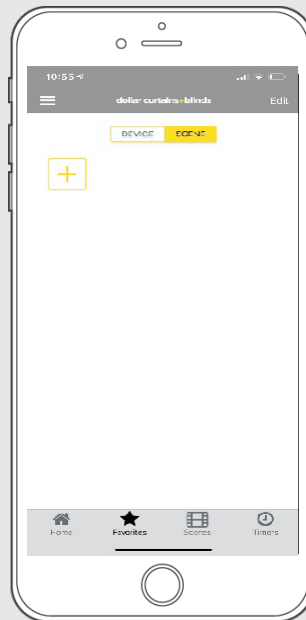
Select the "Plus" icon to add a favorite device to your "Favorite".

### STEP 2 - Edit a Favorite Device



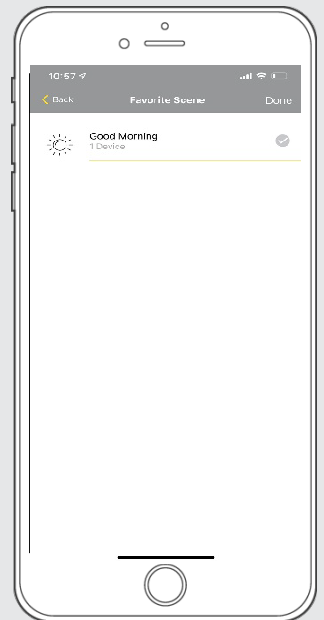
Select "EDIT" in the upper right corner to remove the favorite device from your screen.

### STEP 3 - Create a Favorite Scene



Select the "Plus" icon to add a favorite scene to your "Favorite".

### STEP 4 - Create a Favorite Scene

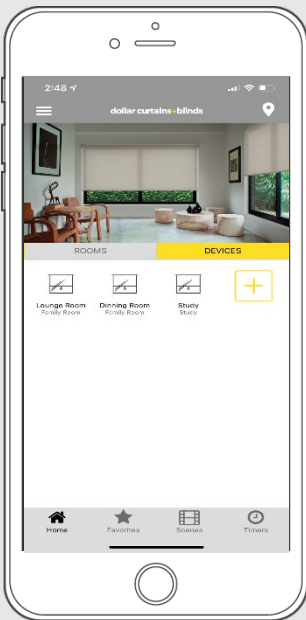


Select "EDIT" in the upper right corner to remove the favorite scenes from your screen.



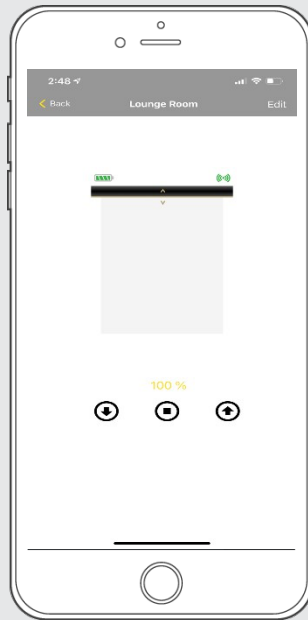
## HOW TO ADJUST LIMITS:

### STEP 1 - Adjust Limits



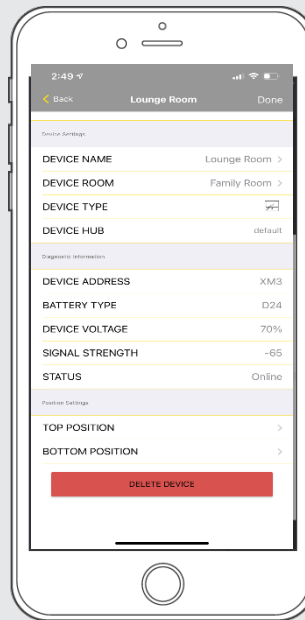
Select the device you want to adjust the limits on.

### STEP 2 - Adjust Limits



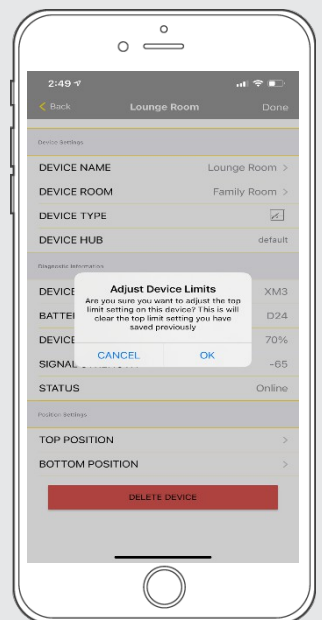
Select "Edit" on the top right to open the shades settings page.

### STEP 3 - Setting Limits



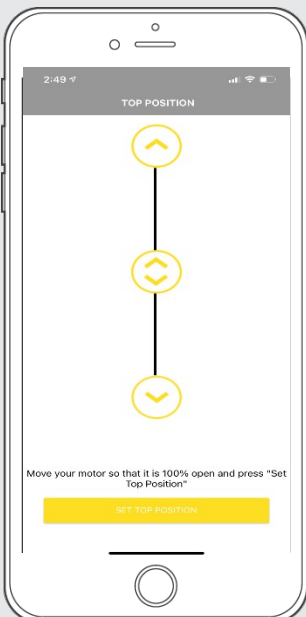
Modify the Top or Bottom position of the Device as desired.

### STEP 4 - Setting Limits



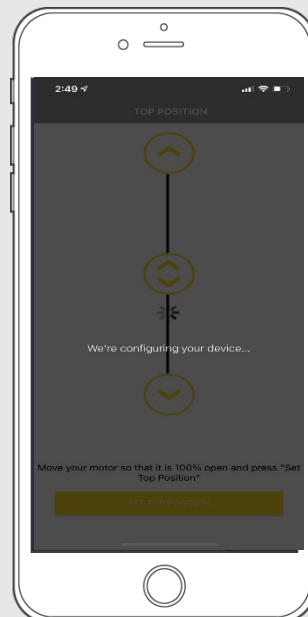
Select the 'Top Position' to change the upper limit of your shade. Press 'OK' to continue.

### STEP 5 - Setting Limits



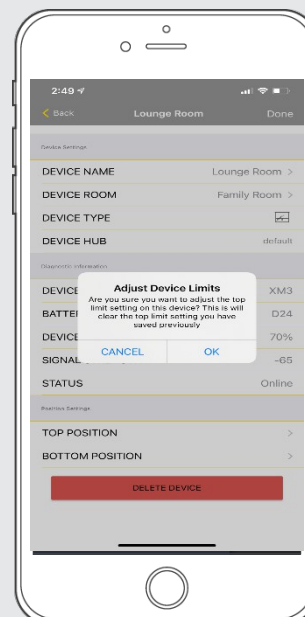
To move your shade a little bit, press the arrow buttons or slide the double arrow button. Press 'SET TOP POSITION' to save.

### STEP 6 - Setting Limits



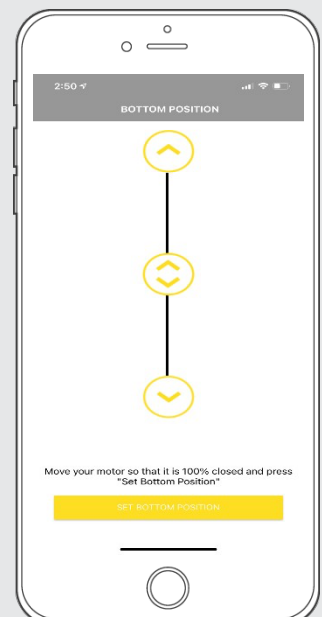
The app will configure the new top position.

### STEP 7 - Setting Limits



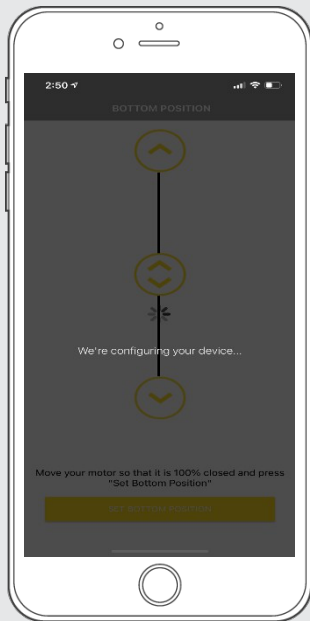
Press the "Bottom Position" to change the lower limit of your shade. Press 'OK' to continue

### STEP 8 - Setting Limits



To move your shade a little bit, press the arrow buttons or slide the double arrow button. Press "SET BOTTOM POSITION" to save.

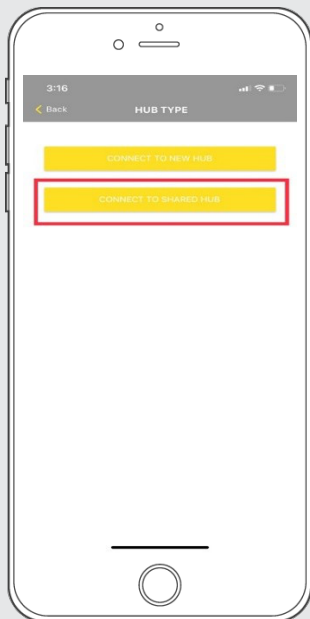
## STEP 9 - Setting Limits



The app will configure the new Bottom Position.

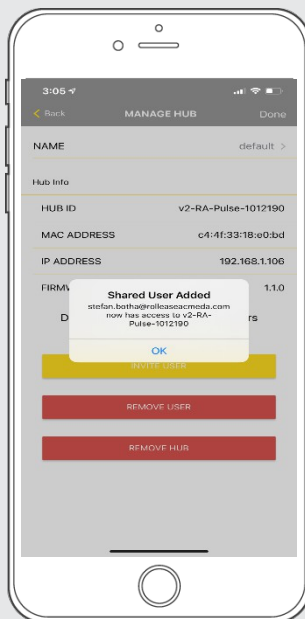
## HOW TO SHARE THE PRO:

### STEP 1 - Share a PRO



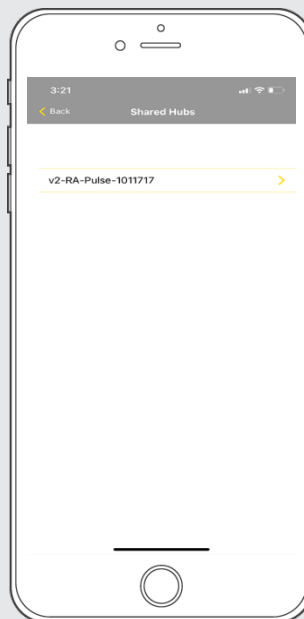
In the 'Add a PRO' Screen, it is possible to connect to a shared PRO.

### STEP 2 - Share a PRO



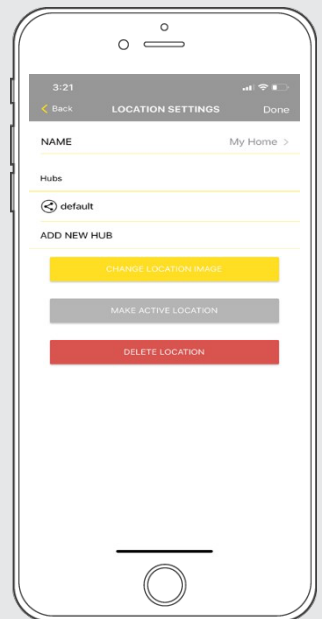
The PRO must have been shared from another account.

### STEP 3 - Share a PRO



The shared PRO will be listed on the shared PROs list to be added.









### STEP 4 - Share a PRO




After it is added, the shared PRO will appear under the Location Settings it was added to with a red 'S'.

## PRO LED BEHAVIOUR

The light on your PRO 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	PRO 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 PRO Clear Cache and Ready for Pairing

	LED is Off	PRO is not connected to Power
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## UNDERSTANDING WIRELESS SIGNAL STRENGTH

If you have seen a Shade Offline pop-up message in the app, 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 PRO.

Within our advanced motors, we can record the Received Signal Strength. When the shade communicates with the PRO 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.




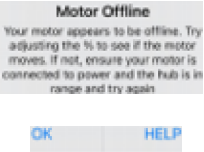


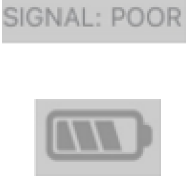




-60dB means it is in a good environment that has little interference while -95db means the signal needs is weak due to distance or interference.

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 colour based on the table below. These values will fluctuate slightly as the PRO 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.

EXCELLENT	GOOD	AVERAGE	POOR
<p>Between 30 and -69</p> <hr/> <p>Operation of shades can be as expected</p>	<p>Between -69 and -81</p> <hr/> <p>Operation of shades can be as expected</p>	<p>Between -82 and -90</p> <hr/> <p>Shades close to the -90 value may be intermittent in some cases</p>	<p>Less than -91</p> <hr/> <p>Shades higher than -91 will problematic</p>

## App Screen Icons

App Screen	Icon	MEANING	STAnJS
		Battery Percentage Icon	3 Levels of Battery  Full 100-76%  Medium 75-38%  Low 37- 6%  Empty 0-10% (Motor starts beeping)
		Motor Offline Pop up reminder	The motor is offline, and the control device is not on the same network.
		Motor Offline	The motor is offline
		Greyed out Icons	Signal or Battery Icons being greyed out when the motor is offline, it displays the last known values but the motor is offline
		AC Motor Type Icon	AC Powered Motor connected to continuous power
		DC Motor Type Icon	DC Powered Motor connected to intermittent power  Full 100-70% Medium 69-11% Low 10% or less  No voltage may be displayed [S] [M]

## Troubleshooting Information

Not all Networks are compatible with the PRO.

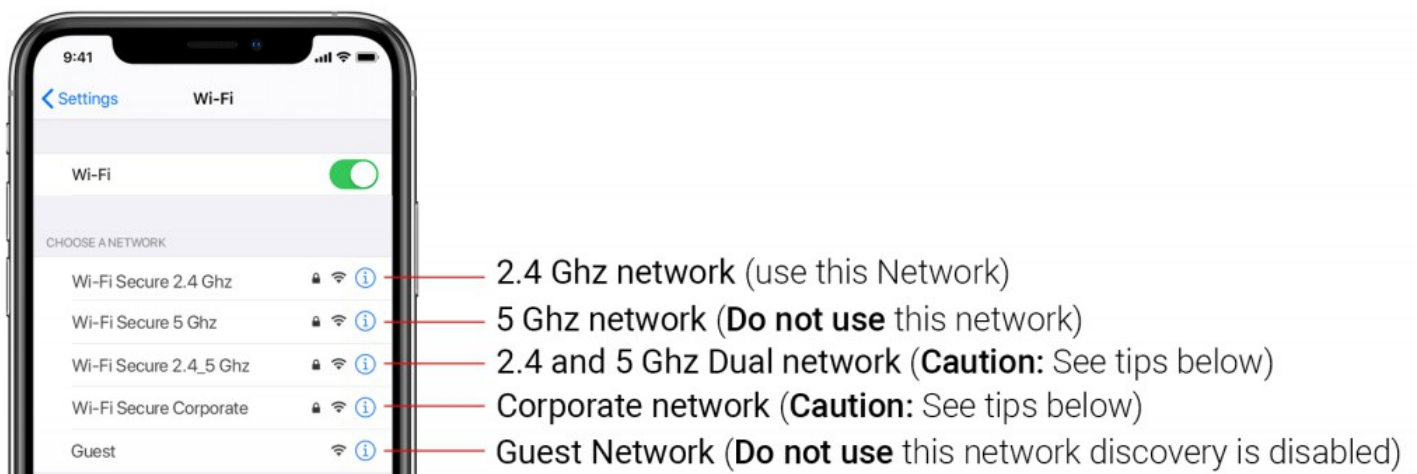
### INCOMPATIBLE NETWORKS - WIRED

Do not try pair the PRO via the Ethernet Cable. Ethernet can be used to operate it day to day but not pairing.

### INCOMPATIBLE NETWORKS - WIRELESS

- 2.4 GHz Networks only!
- The PRO must be connected to a 2.4 GHz network.
- The PRO CANNOT connect to a 5 GHz Network

**THERE ARE 5 COMMON WIFI SETUPS NOTED BELOW:**



### 5 GHz NETWORKS

The Automate Pulse2 PRO 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 PRO 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 PRO pairing process will fail.

Resolution:

#### Option 1

You can temporarily disable the 5ghz band in the Modem or Router settings while pairing the PRO. 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 PRO 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 PRO 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 your modem or router, create a hotspot with another device, name the hotspot and password identical to your network. Pair the PRO 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

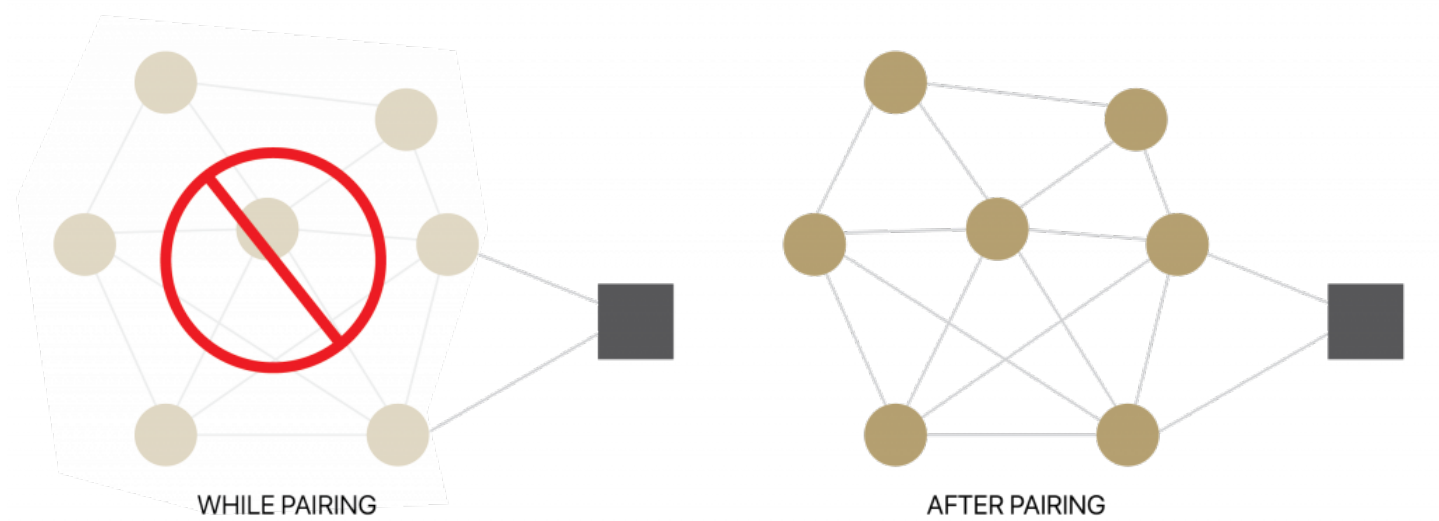
### **GUEST NETWORK.**

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 PRO info, create a DHCP reservation to ensure that every time your PROs 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 PRO 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 PRO. 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 pop-up 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 PRO.

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 several 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 PRO 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 PRO 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 colour based on the table below. These values will fluctuate slightly as the PRO 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 PRO OR SHADES PERFORM BETTER?

You have two options; you can move the PRO 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 PRO 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 PRO pairing process).

Our motors can send and receive signals, it may be the PRO sends the signal without any issues, but it may be when the motor sends the PRO 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 PRO

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

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

In some cases, moving the PRO 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 PRO into a power bank that allows you to place the PRO anywhere while testing.

Tips	Potential Result
Always deploy the PRO in a horizontal position. The PRO antenna was designed to have a better performance to spread the signal when the PRO is placed horizontally.	could add +/- 5-15% strength
Ensure the PRO is in the open environment and not covered	could add +/- 5-15% strength
Simply rotating the PRO 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 PRO a foot or two higher and check again. If the PRO is too high, maybe move it lower. We recommend placing the PRO 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 PRO closer to the affected shade. Often problematic shades (a lot of interference) need to be a lot closer than others. Move the PRO 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 PRO 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 PRO 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 PRO which may mean you may need an additional PRO, to allow a stronger signal strength per PRO 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 PRO.

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.

### PRO Offline Assistance

Your PRO 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 PRO is not able to detect the Wifi network it was configured to. This often happens because the PRO is placed too far away from your Wifi router. Try reconnecting your PRO closer to your Wifi router with as few obstructions as possible. Be mindful that moving your PRO can reduce the signal strength to some of your paired shades. RF repeaters or an additional PRO may be required if you notice reduced performance from your shades after moving your PRO.
- No light illuminated on your PRO means the PRO is not getting adequate power. Ensure you are powering the PRO with the included Micro USB cable and power brick. Ensure the PRO 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 PRO'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 PRO 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 PRO from properly connecting to the internet. Try whitelisting your PRO'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 PRO 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 PRO 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. Be aware that PRO pairing via an ethernet connection is not currently supported.

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 façon à ce que la population ne puisse y être exposée à une distance de moins de 20 cm. Installer les antennes de façon 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.

**For any further questions or support please contact our Customer Tech Phone Support on 03 9355 0100, Monday - Friday 8.30am - 5pm, to assist you with the Pulse PRO, app and voice control setup.**