RCL Control User Manual
Software Version 1.1.2

Contents

1.0 Introduction

1.1   Welcome

Welcome to RCL Control. This user guide covers the physical installation of the light fixtures and Mediator, setting up the application and the 3 main usage modes of the app:

- Edit & Commissioning
- Lighting Design
- Quick Control Mode

You will also find recovery and troubleshooting tips.

1.2   App Setup

Upon the app's first launch you will be presented with a choice of four options:

- Setup a new Mediator
- Connect to an existing Mediator
- Load a configuration file
- Simulation mode

If the app has already been configured and you would like to setup the app again, you will need to reset the app.

1.3   New Mediator Setup

On the app first launch, or after resetting the app, select the **Setup a new System** option.

In the next step, you will be able to select one of the Mediators available on the current Wi-Fi network. The Mediator you select will be considered as the main Mediator.

If the Mediator you are trying to connect to is not present, make sure it has been installed properly and check your iPad's Wi-Fi configuration.

Once you have selected the main Mediator, enter a strong password to secure your system. You will need this password again to re-enter the App's Edit mode or if you wish to connect more iPad's to this mediator

1.4   Existing Mediator Setup

To connect a new iPad to an existing configured system, select **Connect to an existing System**.

In the next step, you will be able to select one of the Mediators available on the current Wi-Fi network. Make sure you connect to the Mediator that was originally configured as the main Mediator.

If the Mediator you are trying to connect to is not present, make sure it has been installed properly and check your iPad's Wi-Fi configuration.

Enter the system's password and tap **Connect**.

The configuration will automatically be downloaded to your iPad, your iPad will be linked to your system and ready to use.

1.5   Load a Configuration File

If an RCL Control configuration file has been made available to you and is stored in the **Files** app on your iPad, choose the **Import configuration from file** option from the launch screen.

If the configuration file has been sent to the iPad in any other app, such as **Mail** or **Messages**, tap on the file within this app, then tap on the share button and choose RCL Control in the share pane.

You will need to enter the password of the configuration that you are opening.

1.6   Simulation Mode

On the launch screen, select **Simulation Mode**.

A simulated configuration will be shown. You can use almost all features of the app for demonstration purposes.

> **Note**
> *Network connection and a Mediator are not needed for the Simulation mode.*

1.7   Edit Mode

Enter the Edit mode to confirgure the Mediator, manage zones & plans, and pair and position lights on plans.

The app and system need to be already configured.

1.   Enter Edit mode.

> **Important**
> *Make sure only one iPad is in Edit mode at one time. If more than one iPad is in Edit mode, the last iPad exiting Edit mode will overwrite changes made by the other iPad.*

2.   On the app's main screen, tap on the **Edit** button at the top left. Enter your system's password and tap **OK**.

> **Note**
> *The app's navigation bar will turn red while you are in Edit Mode.*

3.   To exit Edit mode and save all changes, tap on the **Done** button at the top left of the screen.

2.0 Mediator

2.1   Edit Mediator Configuration

To access a Mediator's configuration, you need to enter Edit mode, then tap on the Setting icon (⚙) at the top right of the screen.

Here, you can:

- Change the configuration's name
- Export or import the configuration
- Change a Mediator's name or password
- Add or remove a Mediator
- Identify or remove lights paired to a Mediator
- Replace a Mediator

2.2   Change Configuration Name

In the configuration screen, tap on the configuration's name to edit it. The configuration name will also appear at the title of the main app's main screen.

> **Note**
> *You can choose, for eample, to name the configuration after your venue's name.*

2.3   Export a Configuration

In the configuration screen, tap **Export** and follow the steps to save configuration file to the **Files** app or to send it through any of the system apps such as **Mail** or **Messages**.

> **Note**
> *The configuration file will be encrypted using your system's password*

2.4   Import a Configuration

In the configuration screen, tap **Import** if an RCL Control configuration file has been made available to you and is stored in the **Files** app of your iPad.

If the configuration file has been sent to the iPad in any other app, such as Mail or Messages, tap on the file

within this app, then tap on the (>) button and choose RCL Control in the share pane.

2.5   Mediator Properties

To change a Mediator's password - in the configuration screen, select the Mediator, then tap on **Update password**.

To change a Mediator's name - in the configuration screen, select the Mediator, then tap on the Mediator's name to edit it.

2.6   Adding / Removing a Mediator

To add a Mediator - In the configuration screen, tap on **Add Mediator**, then choose an available **Mediator**.

If the **Mediator** you are trying to connect to is not present, make sure it has been installed properly and check your iPad's WiFi configuration.

To remove a Mediator:

1.   In the configuration screen, select the Mediator you want to remove from your system.

> **Note**
> *You cannot delete the main (first) Mediator*

2.   Tap on the Delete button.
3.   All lights paired to this Mediator will be removed from their respective plans.

2.7   Unpair Lights from a Mediator

In the configuration screen, select the Mediator.

Tap on **Paired Lights**.

Swipe left on the light you want to unpair to reveal the **Unpair** option.

Tap **Unpair**.

Tap **Delete** to unpair the selected light.

2.8   Replace a Mediator

Enter Edit mode, and open the configuration by tapping on the (⚙) icon at the top right of the screem.

In the configuration screen, select the Mediator.

Tap on **Replace** and follow the steps.

All the lights paired with the replaced Mediator will now be paired with the new Mediator.

3.0 Light Plan

3.1   Manage Zones & Plans

From the app's main screen, enter Edit mode.

To add a new zone, tap on the (+) below all existing zones (you may have to scroll down).

To remove a zone, tap on the (✕) icon at the right of a zone separator

To add a new plan, tap on the (+) icon inside the dark grey plan space holder.

To remove a plan, tap on the (✕) icon at the top right of a plan thumbnail.

To reorder plans or move a plan from one zone to another, tap and hold on a plan's **thumbnail**, then drag the thumbnail to the desired position.
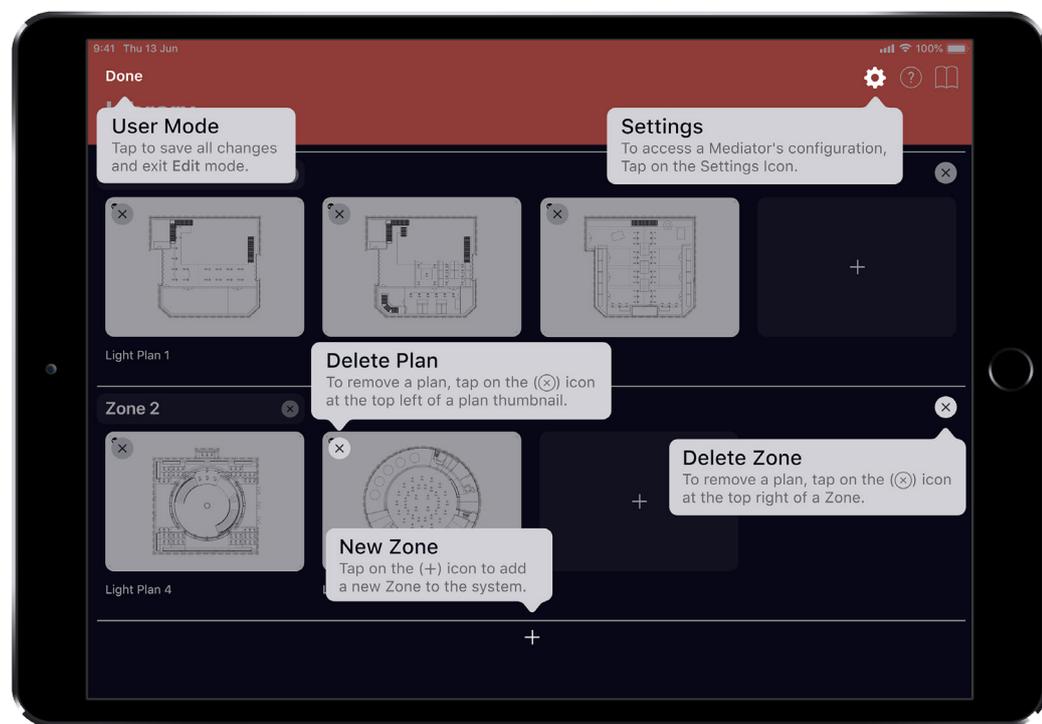

Fig.1, A red menu bar signifies the software is now in Edit Mode.

3.2 Editing a Light Plan

Enter Edit mode and tap on the thumbnail of the plan you wish to edit.

Here, you can:

* Edit a plan's attributes and groups
* Pair new lights
* Select lights and change their position on the plan
* Edit a light's properties

3.3   Plan Attributes & Groups

Plan attributes and groups can be edited in the right pane, under the **Light Plan** tab. To change a Plan's name, simply tap in the name field and enter a new name.

To change the plan's background tap on **Replace Background**. You'll then be able to use a **Blank** background, or load an image file from the **Files** app, **Camera**, **Film roll** or **Photo library**.

Each plan comes with 4 default groups. To edit groups, simply tap on the **Groups** row.

1.   To add a group, simply tap on **Create Group**.

2.   In the next screen, enter the group's name and choose a colour.

3.   Tap on an existing group to edit its name, change its colour or delete it.

3.4   Pair New Lights

The pairing process allows you to connect a light wirelessly to a Mediator, and position the light on the light plan.

> **Note**
> *This process uses sounds, so make sure the iPad's sound is on and the volume is up.*

1.   Enter Edit mode and tap on the thumbnail of the plan you wish to add the light to. In the right pane, select the **Light Plan** tab.

2.   Tap on **Add Light**.

3.   If you have more than one Mediator in your system, select the mediator that is the closest to the light you are trying to pair.

4.   On the RCL handheld controller, using the Function arrow keys, navigate to **Wireless Pairing** (Figure 3) and press the (OK) button**.**

5.   On the iPad, enter the code displayed on the remote (example pictured), then tap **Open Pairing.**

6.   On RCL handheld controller, press the (⊕) key and aim at the light's sensor until the light's LEDs start flashing blue.

7.   After a few seconds, you will hear a sound and the newly paired light will be positioned in the middle of the light plan.

8.   Place the light in the desired location on the plan schematic.
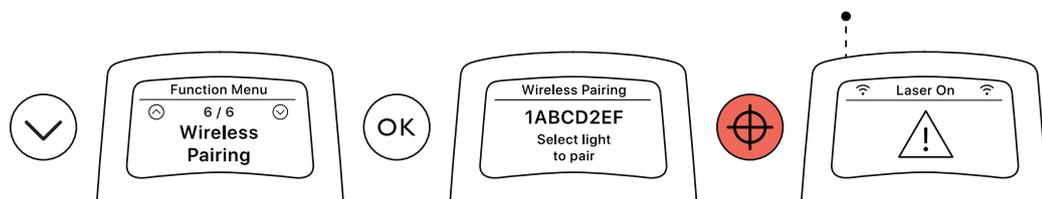
9.   Repeat the process for each new light.

Fig.2, RCL Handheld Controller schematic showing the light pairing process.

3.5   Select Lights

To select or deselect a light on the plan, simply tap on it.

To deselect all lights on a plan, tap on the plan in an area where there are no lights.

Advanced selection features can be found in the **right pane**, under the **Selection** tab.

3.6   Light Properties

Enter Edit mode and tap on a light plan's thumbnail.

Select the light or lights whose properties you would like to view or edit.

The light properties are available in the right pane, in the **Light** tab.

You can view the name of the Mediator to which the light is paired and the level of the wireless signal going between the light and the mediator.

> **Note**
> *This information is only available when a single light is selected.*

You can view the selected light's group. Simply tap on another group to assign it to the selected light.

To identify the selected lights, tap on the Identify (⬅☰) icon at the top right of Right pane. The LEDs on the light's sensor will flash.

If your system is controlled via DALI, you can view or edit the DALI groups associated to that light.

To remove a light from the plan and unpair the light, and tap on the **Delete** button.

To unpair a light and transfer all its settings to another unpaired light, tap on **Replace**.

3.7   Position Lights

1.   Enter Edit mode and tap on a plan's thumbnail.
2.   Select the light or lights you would like to reposition.
3.   Drag the lights on the plan to move them and drop them to their new position.

To align lights, select 2 or more lights, then, in the right pane, in the **Selection** tab, tap on the vertical alignment (⊷) or horizontal alignment (⊶) icons.

To distribute lights evenly on the plan, select 3 or more lights, then, in the right pane, in the Selection tab, tap on distribute vertically (⊙) or distribute horizontally (⊶⊙).

4.0 Lighting Design

4.1   Lighting Adjustments

To set one or more lights dim level and orientation, enter User mode and select a light plan, then select the light or lights and adjust their properties and orientation in the **right pane**, under the **Light** tab.

4.2   Dimming Lights

Select the dimming mode in the **light mode selector** if the displayed.

Tap anywhere on the dim bar and slide your finger horizontally.

To dim with a higher precision, tap on the dim bar, slide your finger vertically up or down, away from the bar, then slide your finger horizontally to dim.

> **Note**
> *The further away you move from the dim bar vertically, the more precision you will achieve.*

When more than one light is selected, a different multi-dim bar is displayed. Slide the central cursor left to dim all the lights down, or right to dim all the lights up. The further away you pull the cursor from the centre of the bar, the faster it will dim up or down. Release your finger when you've reached the desired level.
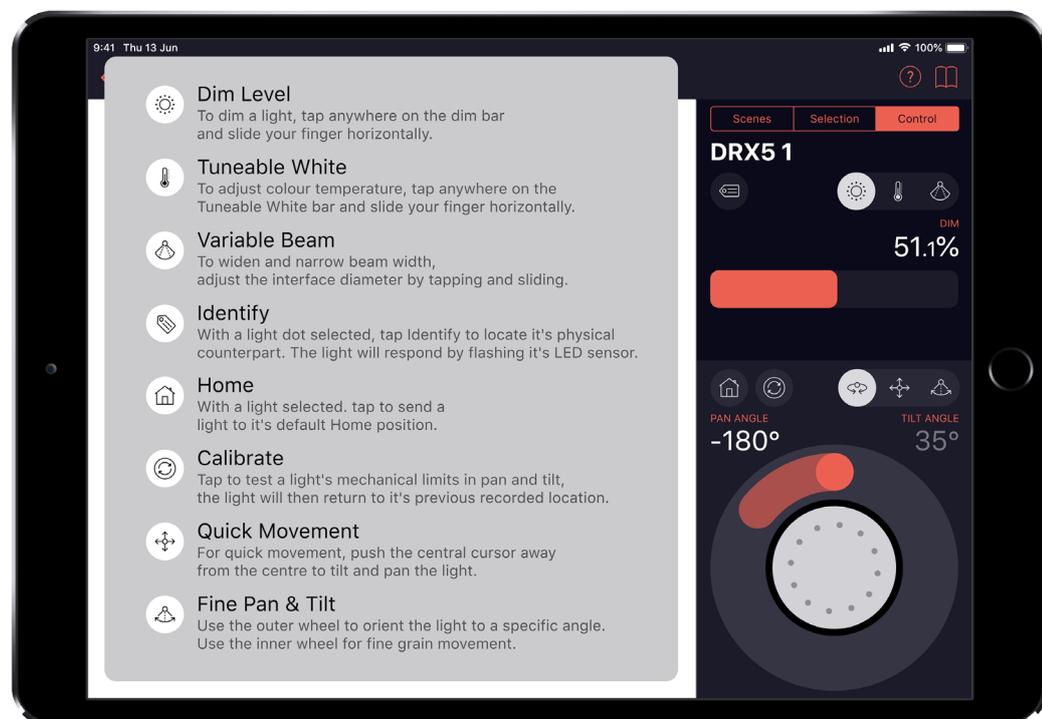

Fig.3, The actions above highlight the functions of the Control tab in the Light Plan view.

4.3   Tuneable White

In the **light mode selector**, tap on the colour temperature icon (🌡) .

Slide your finger on the colour temperature bar left or right until you've reached the correct temperature.

4.4   Variable Beam

In the **light mode selector**, tap on the beam width (⏏) icon.

Slide you finger on the beam with disk. Move away from the centre to achieve a wider angle, close to the centre for a narrower beam.

4.5   Tilt & Pan

You can adjust the light's orientation in the lower part of the right pane, under the **Control** tab.

Quick Positioning
For quick movement, select the (✛) icon in the orientation mode selector.

In the quick positioning circle, push the central cursor away from the centre to tilt and pan the light. The further away you move the cursor from the centre, the faster the light will move. Release your finger when you have reached the desired orientation.

Precision Tilt or Pan
For more precise movement, select the precision Tilt (⏏) or Pan (↺) icon from the orientation mode selector.

Use the outer wheel to orient the light to a specific angle.

Use the inner wheel for fine grain orientation.

4.6   Automated Commands

The Light Plan Control tab allows a user to send automated commands to individual or multiple lights.

Here, you can:

1.   Identify a light - Select 1 or more lights then, in the **Control** tab, tap on the Identify (⌨) Icon. The selected lights will flash briefly, communicating their location to the user.

2.   Send a light to Home position - Select 1 or more lights then, in the **Control** tab, tap on the Home Position (🏠) Icon. the selected lights will reposition to their default pan and tilt states.

3.   Calibrate a light - Select 1 or more lights then, in the **Control** tab, tap on the Calibrate (↻) Icon. The selected lights will find their limitations in pan and tilt, and then return to their previous location.

4.7   Scenes

You can create, manage and recall scenes in the right pane, under the **Scenes** tab.

Scenes allow you to capture and recall both the light properties and orientation of selected lights.

Open a light plan, and in the right pane, under the **Scenes** tab, tap on the **Edit** button.

Attention
Make sure only one person is editing scenes at one point in time – even across multiple plans.

To create a new scene, select the lights that you want to capture, or if you want to capture all the lights in the plan, make sure none of the lights are selected, then tap on **Capture Scene**

- To reorder scenes, drag the scenes up and down using the reorder icon (≡) at the right of the row.
- To rename, assign a DALI address or delete a scene, tap on the scene name.
- Tap on **Done**, when all edits have been performed.
- To recall a scene, simply tap on the scene name when not in scene editing mode.

4.8   Quick Controls

The most common actions can be accessed from RCL Control's main screen.

Tap on a plan's quick control icon (⋮) to display the quick action pane.

To dim all the lights in the plan, use the top dim cursor.

If lights have been assigned to groups for the selected plan, you can also dim all the lights in those groups using their respective cursors.

If scenes have been defined for the selected plan, simply tap on a scene icon to recall it.

5.0 Troubleshooting

5.1   Signal Strength

To check the quality of the signal between a light and the mediator it has been paired with, enter Edit mode, select a plan, then select a light.

In the right pane, under the **Light** tab, you will find the name of the mediator and the signal strength and quality indicators. Tap on these indicators to refresh these values.

5.2   Configuration Password

If you have forgotten the configuration password, you can press and hold the physical reset button on the Mediator box.

While the button is pressed, the Mediator will stop checking the validity of passwords.

To set a new password:

1.   Press the physical **Reset** button on the Mediator and hold it until the end of this procedure.

2.   Within the RCL Control app, tap on **Edit** to enter Edit mode, and type any 8 characters, then tap **OK**.

3. In the Configuration screen, tap on the Mediator, then tap on the **Update Password** button, then enter a new password.

4. You can now release the **Reset** button.

5. Tap **Done** to exit Edit mode.

5.3   Status LED Modes

The Status LED displayed on the RCL luminaire and RCL Mediator communicates their current state to the user.

The following table represents the various LED states a user might receive from an **RCL luminaire**.

RCL Luminaire Status LED Modes		
Colour	**Mode**	**Description**
○	Pulsing White	The luminaire has received a pair code from the handheld remote controller and is ready to pair. Select the luminaire with the laser to pair.
🔵	Solid Blue	The luminaire is selected and is about to start the pairing sequence.
🔵⊘	Flashing Blue	The luminaire is pairing.
🔵🟢	Blue/Green (Alternating)	The luminaire has successfully paired.
🟢	Solid Green	The luminaire has paired in the last 10 minutes.
🔵🔴	Blue/Red (Alternating)	The luminaire has failed to pair, you will need to retry.

> **Note:**
> *In the event of a luminaire failing to pair, please verify that the mediator is in joining mode and that the code entered on the iPad matches that displayed on the handheld remote controller. Please retry pairing.*

The following table represents the various LED states a user would see from the **RCL Mediator**.

RCL Mediator Status LED Modes			
Colour	**Mode**	**Description**	**Resolution**
🟢	Green	Software launched. System nominal.	n/a
🟣	Purple	Pairing to luminaire is open.	n/a
🟡	Amber	Issue with wireless chip.	Reset mediator.

> **Note:**
> *If any wireless chip issues are not resolved by resetting the mediator, please seek technical advice from RCL.*

5.4   Replace a Faulty Light

1. Enter Edit mode.

2. Select a plan.

3. Select the faulty light.

4. If the light is not responding, a prompt will appear, choose the **Replace** option.

5. If the light still responds, in the right pane, under the **Light** tab, tap the **Replace** button.

6.   Follow the steps to pair a new light to the mediator and transfer all settings to the new light.

5.5   Reset a Mediator

To reset a Mediator to factory settings:

1.   Turn the Mediator off,

2.   Wait a few seconds,

3.   Press and hold the physical **Reset** button on the Mediator,

4.   Turn the Mediator back on,

5.   Release the **Reset** button when the Mediator when the LED is green.

You can now configure the Mediator using the app as if it was new, however, if you do not configure the mediator, it's previous configuration will be loaded when it is next powered on.

5.6   Reset the App

Resetting the app will delete its locally stored configuration and will allow you to reconfigure the app to its initial factory settings.

> **Note**
> *This is useful if you need to enter Simulation mode or connect the app to a new Mediator.*

To reset the app:

1.   Force quit the RCL Control app.

2.   Open the iPad's **Settings** application and find RCL Control's setting section.

3.   Enable the **Reset App** switch.

The next time you launch RCL Control, the configuration stored on the iPad will be deleted and the app will launch in its initial factory settings.

5.7   Error Messages

Occasionally, RCL Control will communicate an error found in the system or one of its luminaires.

The table below states the recommended procedure a user should take when receiving one of the following errors:

Error Codes and Resolutions	
Error Message	**Resolution**
Invalid Response	Please contact RCL Control support team.

For any technical questions, please contact the RCL Control support team;

Email: tech@rclighting.com
Telephone: +44 (0) 20 8404 2400

5.8   Glossary

Mediator
The Mediator is a physical device which acts as a bridge between the ethernet network, the DALI network and the lights' wireless network.

See the Mediator's installation instructions.

You can have more than one Mediator in a system, if there is more than one room or if the number of lights is over 200.

The first Mediator added to the system is called the main Mediator. In addition to controlling the lights, the main Mediator stores the current configuration and distributes it wirelessly to any connected iPad.

Configuration
Refers to all the Mediator, zone, plan and light settings. The system configuration is automatically shared between all iPads connected to the system through the main Mediator.

The configuration file can be manually exported and imported.

Zone
Individual light plans can be grouped together in Zones.

Light Plan
Light plans represent a room layout with the individual lights positioned on it.

Light
The individual RCL Control fixtures that can be controlled by the app.

Group
Within a light plan, lights can be assigned to Groups. Each plan comes with four default groups. New groups can be added, renamed and a assigned a different colour. It is possible to dim all the lights within a Group simultaneously within the Quick Control panel.

If you have any difficulty installing this product please contact:

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