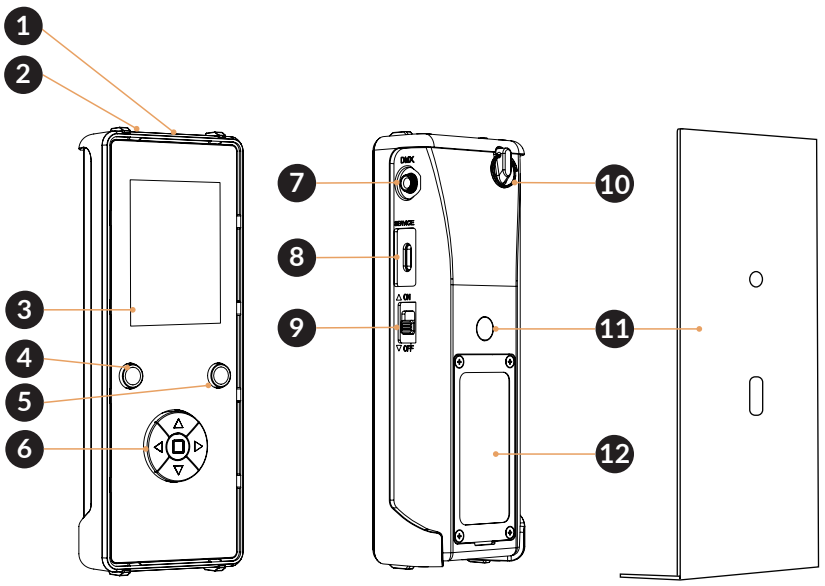
cielux

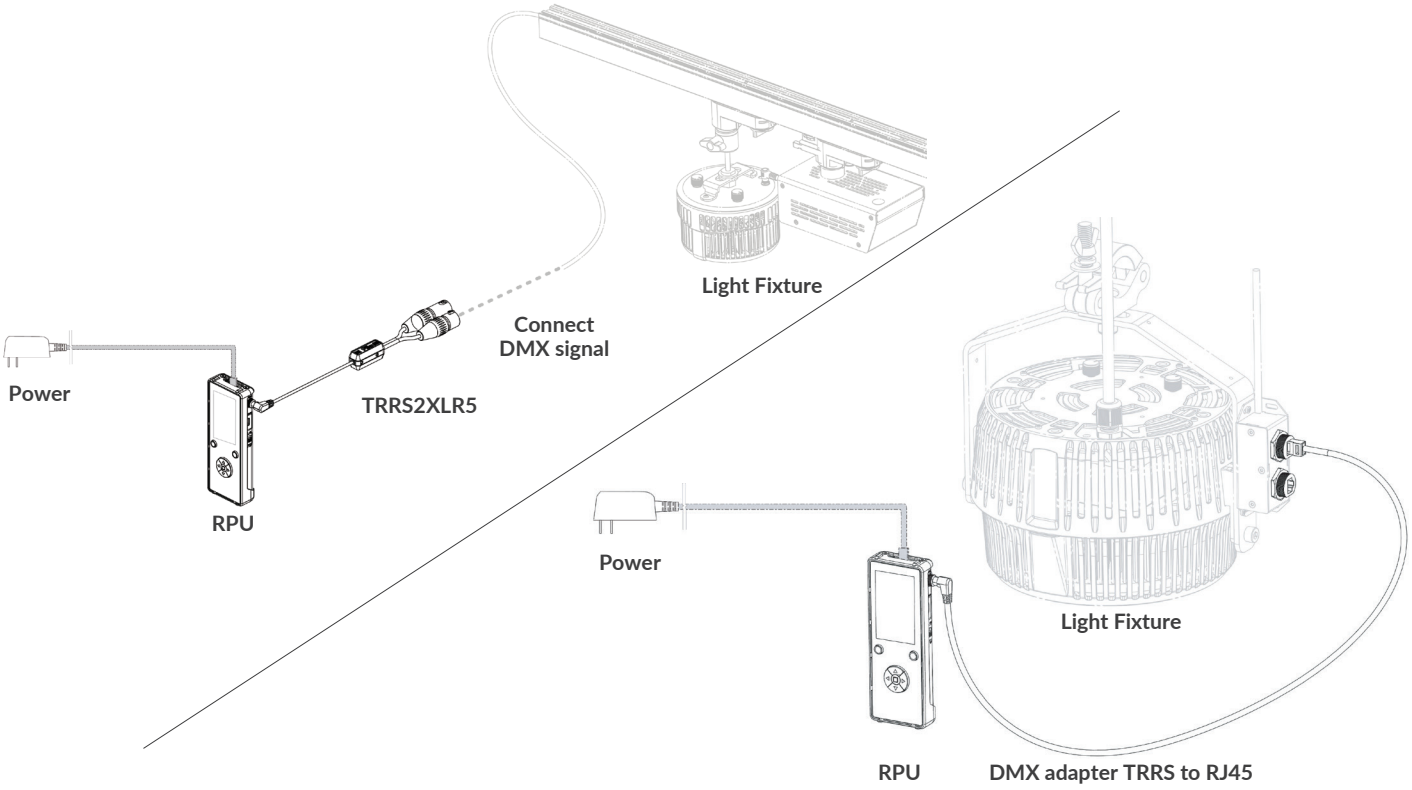
RPU User Guide

Parts Diagram



1. USB Type-C Port (5V/1A Power)
2. Power LED Indicator
3. OLED Display
4. Back Button
5. Option Button
6. Navigation Pad
7. DMX Input Port (TRRS)
8. USB Type-C Port (For updating firmware)
9. ON/OFF Switch
10. Rigging Ring
11. Magnetic Mounting Plate
12. Battery

Installation



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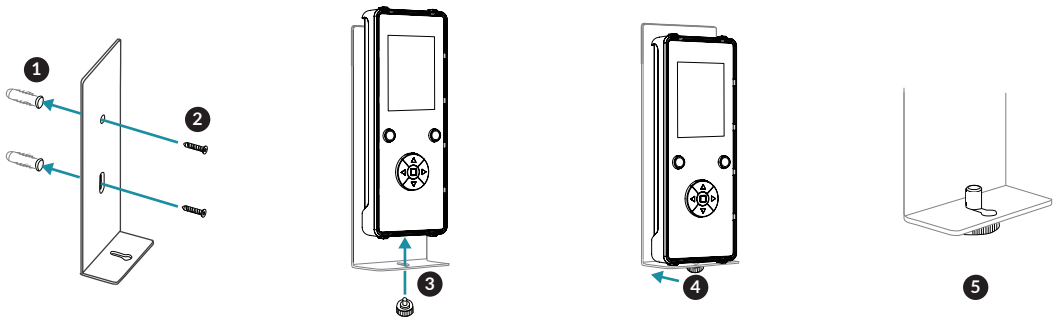
Magnetic Mounting Plate

Insert screws (1) into the wall. Align the holes of the metal plate and secure it to the wall using the cap screws (2). Once the plate is mounted, place the RPU onto the metal plate. From the bottom, insert the hand screw into the hole on the bottom of the RPU (3). Push the RPU and hand screw (4) inward to secure it into place. When the RPU is removed, the hand screw (5) will remain attached.



Button Functions

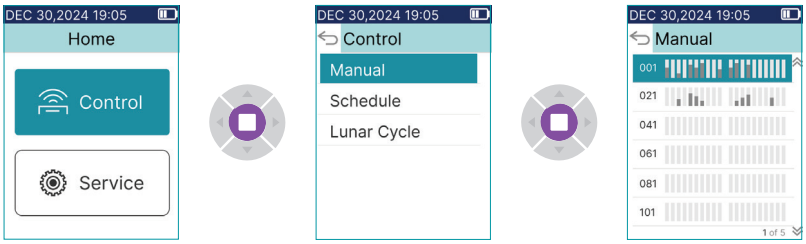
Knob				Back	Option
Actions	**Press** Up/Down	**Press** Left/Right	**Press** Confirm	**Press** Back	**Press** Unused

Control

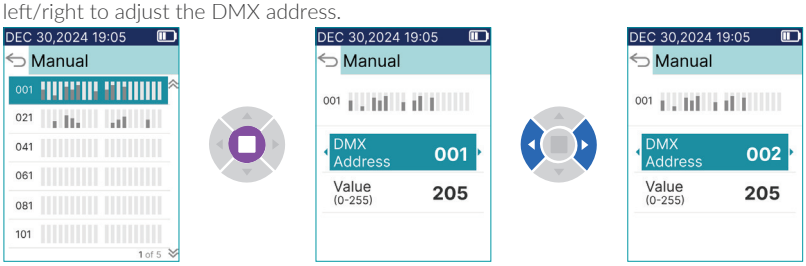
The “Control” section of the RPU covers DMX Control via “Manual Mode” and “Schedule Mode”.
*For explanations and examples of DMX, go to page 10.

Manual Mode

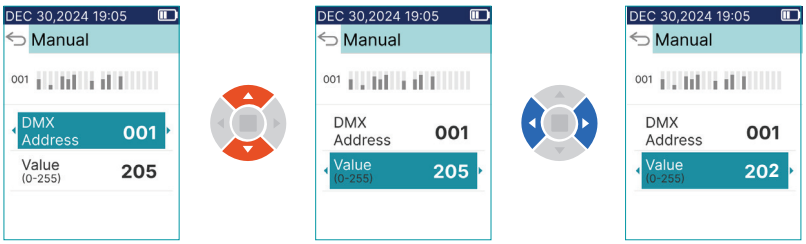
Manual DMX Control allows for manual control and output of 1 DMX Universe.
1) After powering on the RPU and the menu appears, select “Control” and press the center button once. When “Manual” is highlighted, press it again to enter.



2) Use up/down arrows to navigate through available channels groups in increments of 20. Press the center button once on “001” to enter, then use left/right to adjust the DMX address.



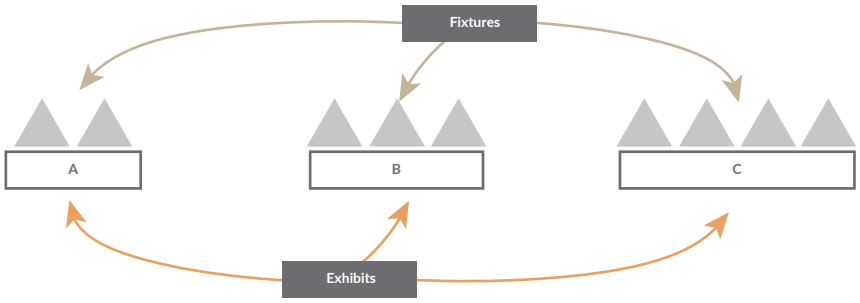
3) Navigate down to "Value". When it is highlighted, use the left/right buttons to adjust channel parameters.



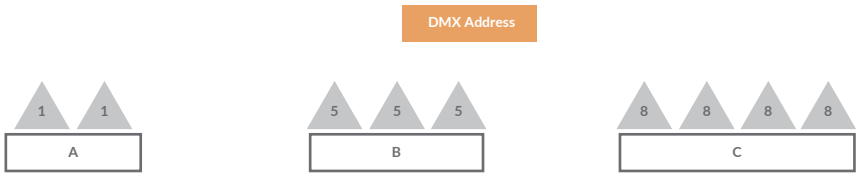
Schedules

Schedules allows users to create smooth, time-based changes in lighting simulating natural cycles like sunrise, daylight, sunset, and moonlight in aquarium environments. Schedules are divided into points, which define the desired light settings (color, intensity, etc.) at a specific time.
The RPU automatically fades between these steps, creating a natural progression throughout the day.

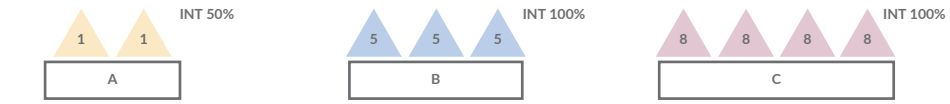
Here is an example of schedule implementation in a gallery with several exhibits.



To control them all with the same schedule, users can set each exhibit to have different starting addresses.



Then, different DMX outputs can be set at various points, allowing for dynamic and flexible schedules.

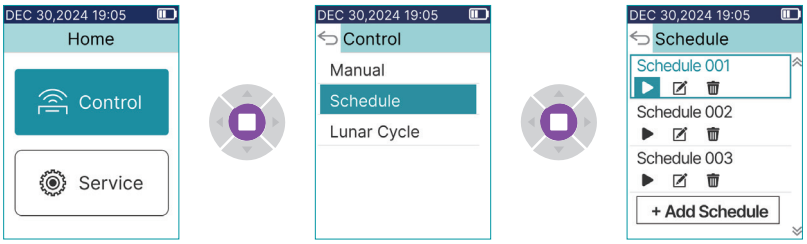


DMX Channel	1	2	3	4	5	6	7	8	9	10
DMX Value	127	0	0	0	255	0	0	255	0	0

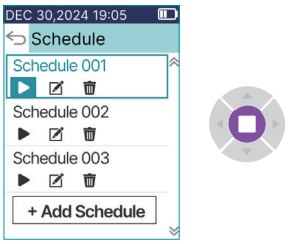
Schedules

RUNNING SCHEDULES

1) When “Control” is highlighted, press the center button once. Navigate down and select “Schedule”, then press once to enter.

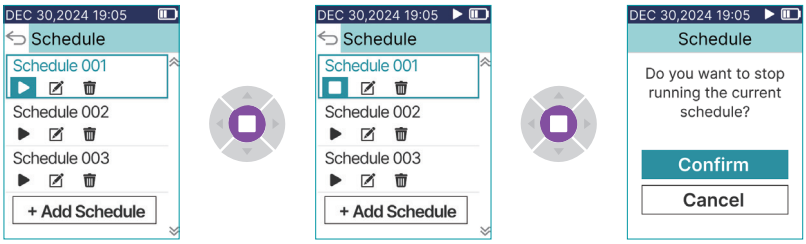


2) Select desired schedule and press the center button once to run schedule.



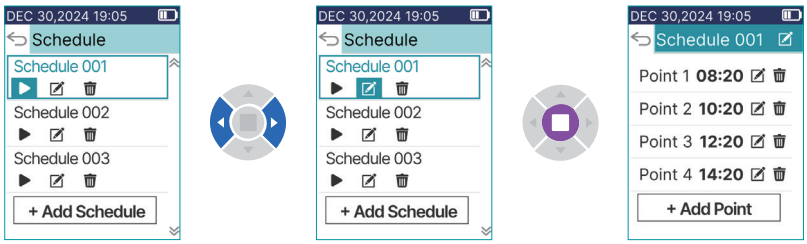
STOPPING SCHEDULES

1) Select desired schedule and press the center button once to stop schedule. Press again to confirm and stop running the current schedule.

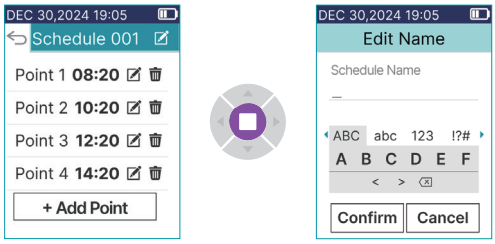


EDITING SCHEDULES*

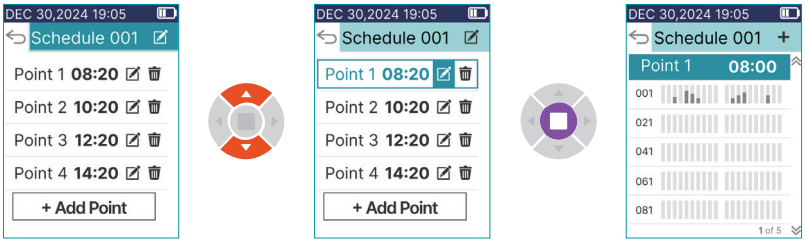
1) When a schedule is selected, navigate left to the edit icon, then press once to enter.



2) Select the schedule banner to edit the schedule name.



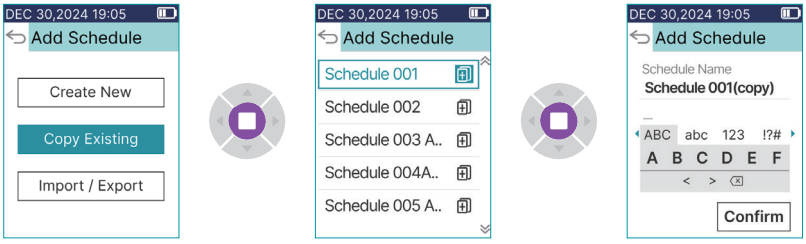
3) Navigate up/down to navigate to each point, then press once to enter.



*Cannot be edited while the schedule is active.

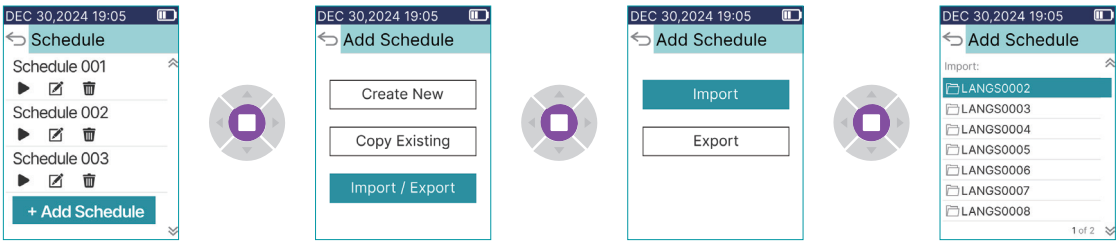
Copying Existing Schedules

1) Navigate down and select “+Add Schedule”. Press the center button once to enter. Navigate down to select “Copy Existing”. Press again to enter.
2) Navigate to Schedule to be copied. Press the center button once on the copy icon to enter.
3) Create a name for the schedule being added. Select “Confirm”.

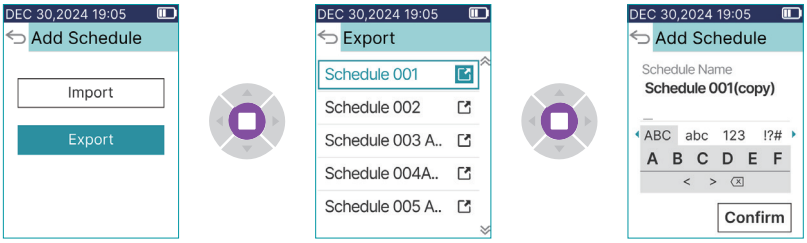


Import/Export

1) Plug USB Drive into the service port of the RPU.
2) Navigate down and select “+Add Schedule”, press the center button once to enter, navigate down to select “Import / Export”, press again to enter.
3) **If Importing,** navigate to and select a schedule to add, the schedule will import automatically.

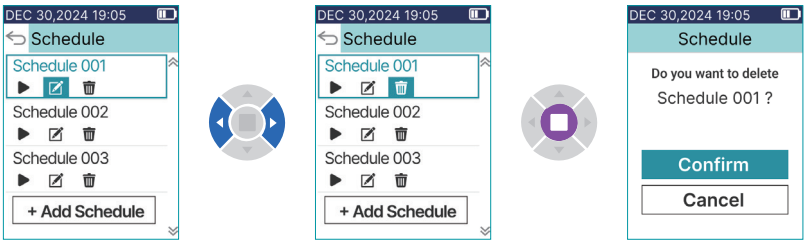


4) **If Exporting,** navigate to and select a schedule to export.
5) Enter a name for the schedule to be exported.



Deleting Schedules

1) When a schedule is selected, use the left/right button navigate right to the delete icon, and press the center button once to delete. Press again to confirm and delete the current schedule.

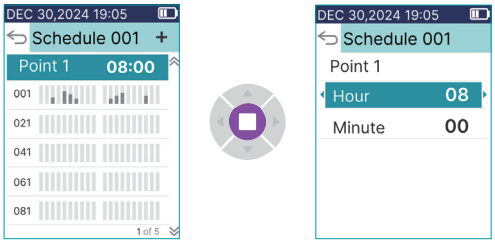


Service

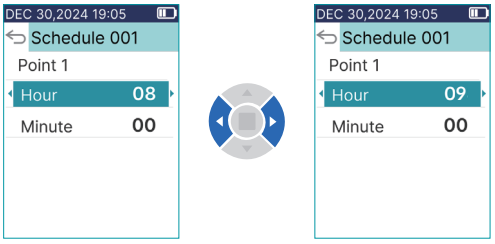
Updates

Updates can be installed via Wi-Fi.
Alternatively, the latest FW of the RPU can also be downloaded from www.cielux.com/support/firmwareUpdates.php, and installed on the device via a USB Drive to the Service Port.

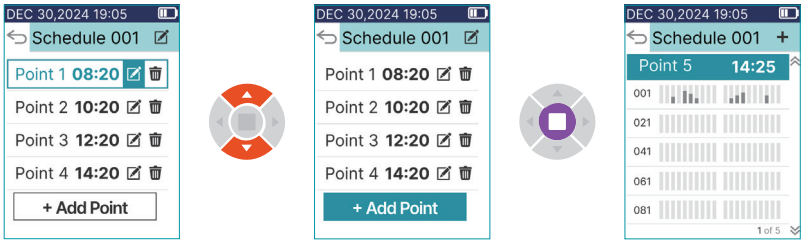
4) Use up/down button to navigate to each point in increments of 20, then press once to enter and set the hour and minute.



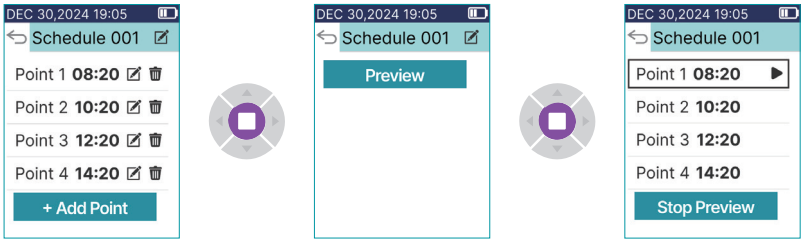
5) Navigate left/right to edit the time stamp of each point.



6) Navigate down to the bottom of the points list to add a new point.



7) Navigate down to the "Preview" button to preview the DMX schedule. The RPU will fast-forward through the DMX schedule in 10 seconds.

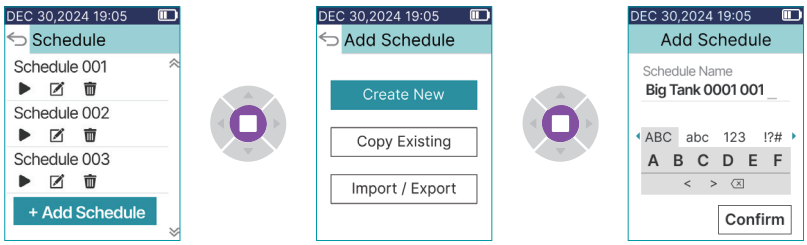


ADDING/DELETING SCHEDULES

Users can "Create a New Schedule", "Copy an Existing Schedule", or "Import/Export a Schedule".

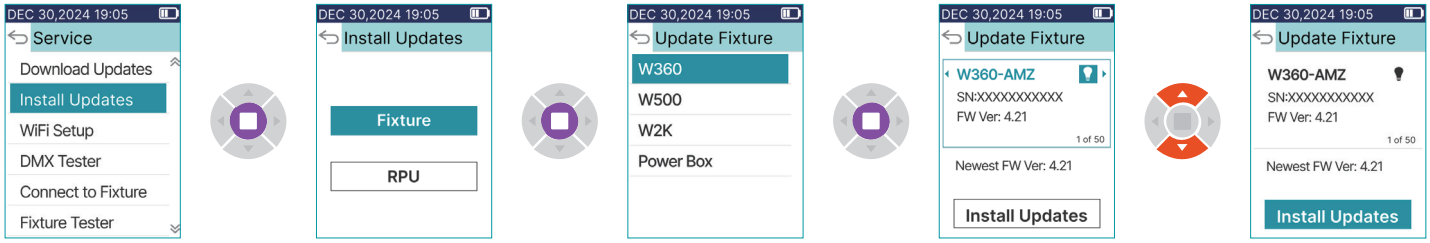
Creating New Schedules

1) Use up/down button to navigate down and select "+Add Schedule", press the center button once to enter, select "Create New", press again to enter.
2) Create a name for the schedule being added, select "Confirm".
3) Create the desired schedule and exit.



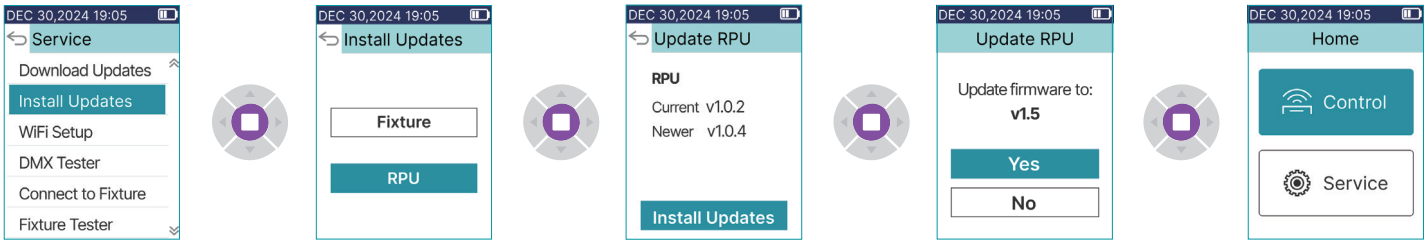
Wi-Fi

Connect to Wi-Fi to ensure the RPU is on the latest FW. The RPU supports 2.4G and 5G networks.



Light Fixture Firmware Updates

Ensure the latest firmware version of the RPU is installed to keep all connected lighting devices up to date.

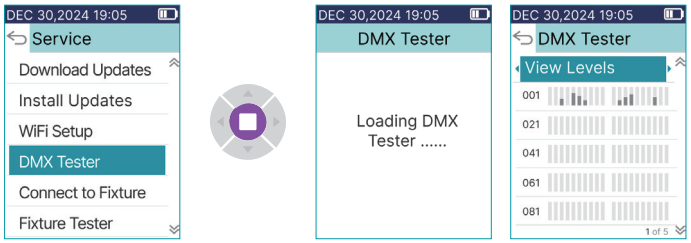


DMX Tester

The DMX Tester can interface with DMX for troubleshooting setups, fixtures, and any connections.
The tester can be set to “View” or “Set Levels”.

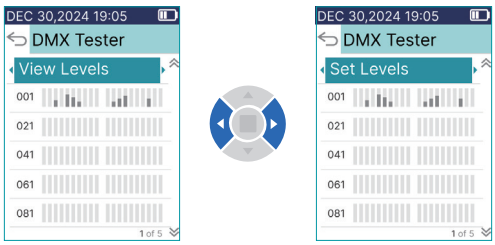
In View Levels:

Connect to an active DMX Signal via the DMX attachment. The RPU will show any incoming signal being read for the DMX Universe.



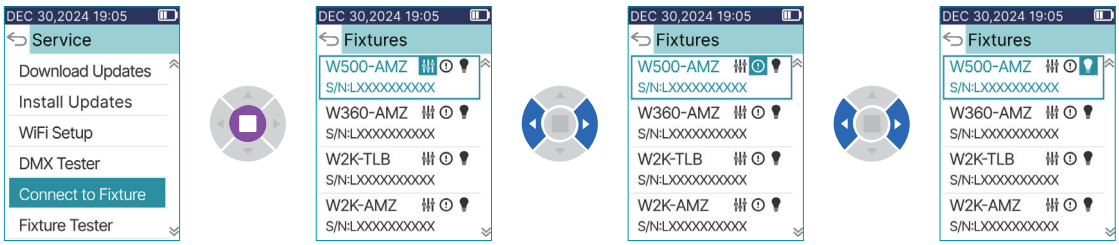
In Set Levels:

Connect to a lighting setup via the DMX attachment. Control for the “Set Levels” mode is identical to “Manual Control”.
Individual channel values can be controlled for any necessary testing.



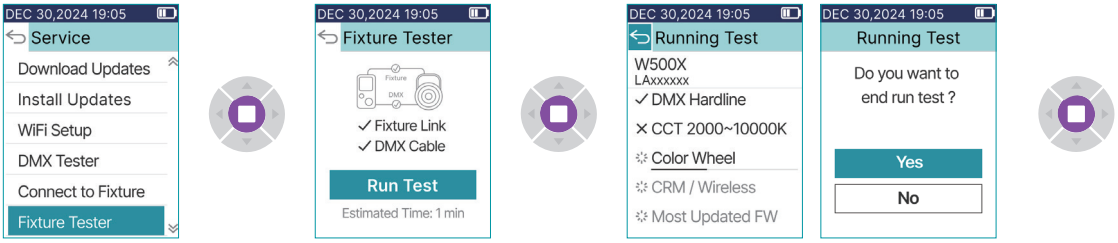
Connect to Fixture

“Connect to Fixture” links directly to cielux fixtures, providing access to settings and fixture information.
It has three facets - Control, Information, and Flash (The selected fixture flashes.)

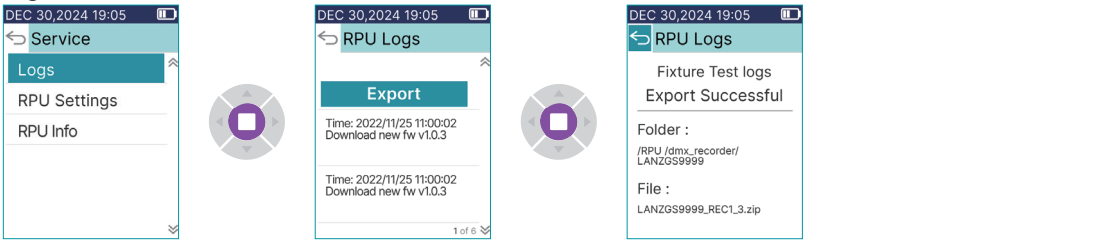


Fixture Tester

The “Fixture Tester” runs a quick diagnostic on a fixture for troubleshooting. Once connected to a fixture via DMX, the fixture will do an intensity and CCT scan, allowing for visual troubleshooting of any unexpected fixture behavior.

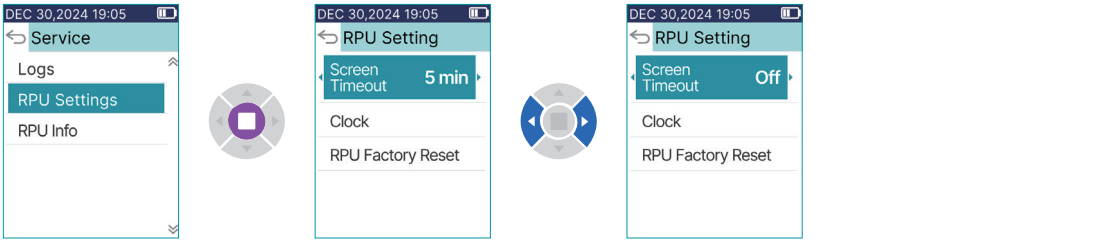


Logs

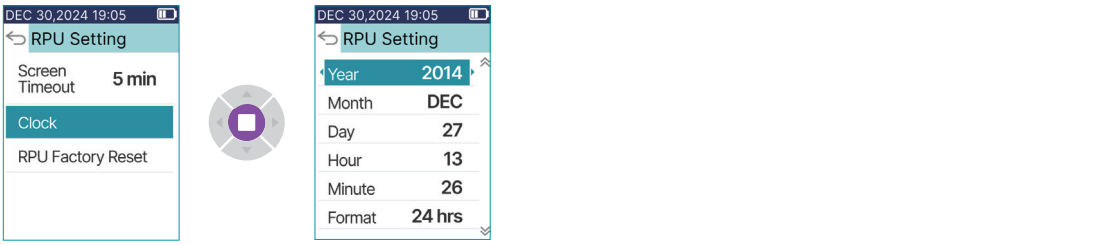


RPU Settings

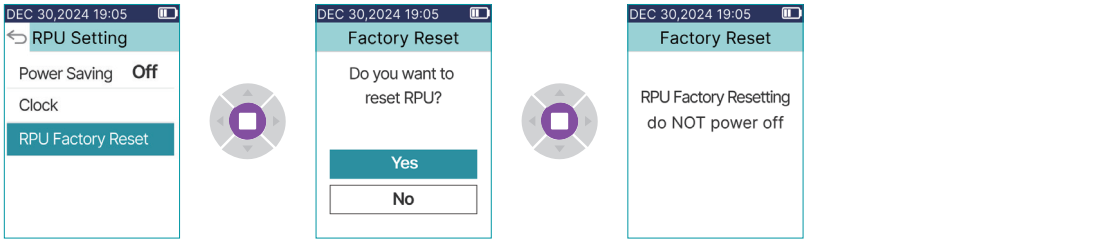
Screen Timeout — Toggling this option enables the screen to turn off after a user-specified duration.



Clock - Sets the RPU's local time and allows switching between 12 and 24 hour formats, as well as toggling daylight saving time.

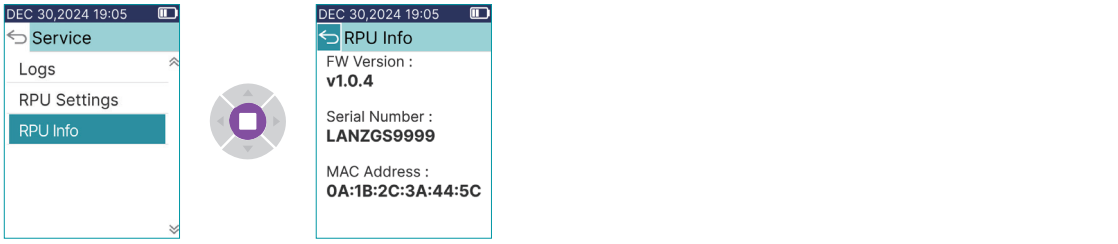


RPU Factory Reset - The “Factory Reset” clears the RPU's memory and returns all settings and features to factory defaults.



RPU Info

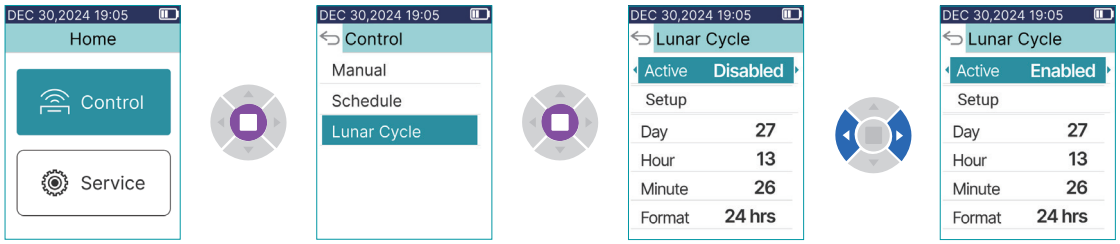
The RPU Info section shows the RPU's firmware version, the serial number of the unit, and its MAC address.



Lunar Cycle

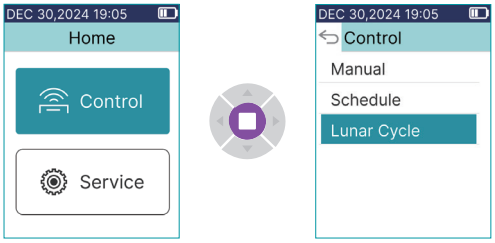
Toggling Lunar Cycle

1) Highlight “Control”, press once, navigate down to “Lunar Cycle”, and press again.
When “Active” is highlighted, use left/right to toggle its status.

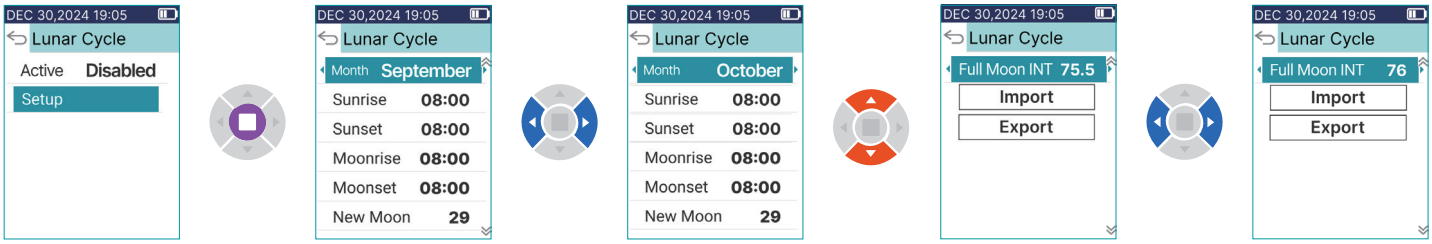


Editing Lunar Cycle

1) In Control, navigate to “Lunar Cycle”.
2) Select Lunar Cycle.



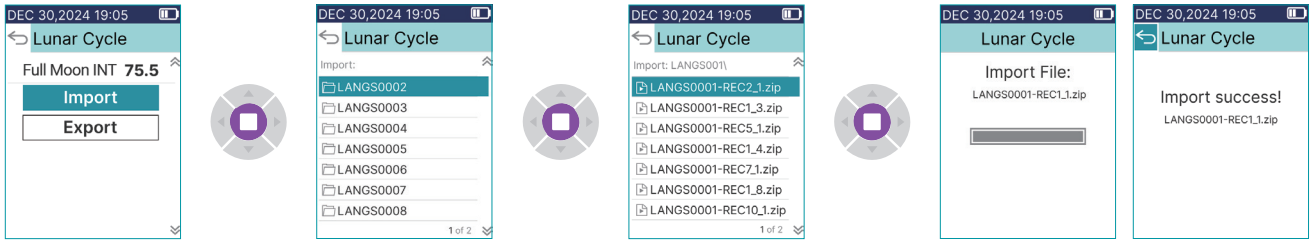
3) Navigate down to “Setup” and press once to enter.
4) Navigate left/right to scroll through months of the year.
5) In desired month, users can set:
Sunrise/Sunset and Moonrise/Moonset at the beginning of the month, New Moon date, as well as Full Moon INT*.



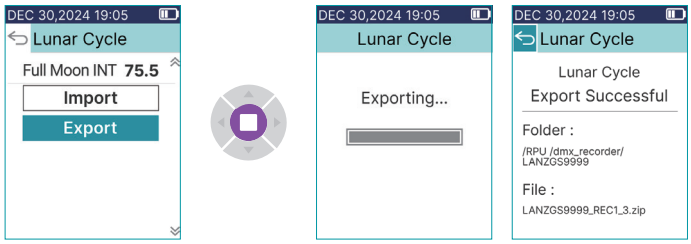
****Unless Channels in a schedule have Full Moon Control enabled, the Lunar Cycle will not trigger****

Import/Export Lunar Cycle

1) Under “Lunar Cycle” menu, navigate down to “Import,” press once, choose the folder and file, and press again.



2) Under “Lunar Cycle” menu, navigate down to “Export” and press once.



***Full Moon INT scales intensity of moonlight output. Intensity of Full Moon INT will be 0 - 10% of maximum cielux Fixture Output.**

***Note* If Full Moon INT overlaps with schedule timing, the Schedule DMX output will take priority.**

Troubleshooting

Problems	Possible Causes	Checks and Remedies
Utility will not launch	• System incompatibility, missing updates	• Check system specs, update software
Light fixture not detected	• Connection error, wrong port, device off	• Confirm power, check cables/wireless, select correct port
Firmware update fails	• Unstable power, wrong firmware	• Confirm stable power, verify firmware file, retry or reset
Power cycle	• Dead batteries, no power	• Refresh batteries, connect to power

Battery Operation

Recommendations
Battery type: Use alkaline battery only
Estimated runtime: 20-40 hours
Battery storage: Avoid leaving batteries installed for long durations

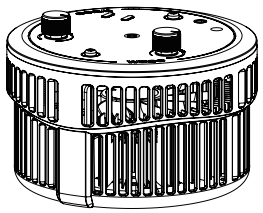
DMX Footprint

For detailed DMX mapping, refer to the product datasheet or visit cielux.com.

DMX Channel	Parameter
1	Intensity 0-100%
2	CCT 2000K-10000K
3	Violet 0-100%
4	Red 0-100%
5	Green 0-100%

DMX is a communication protocol used for theatrical lighting and effects. It is sent as a universe of 512 packets (called “channels”), each with a value of 0-255.

Lighting devices are addressed to channels, which means they read the values at a specific channel start, and act accordingly to the data received. Lights will have DMX footprints, which are the channels a light will “listen” to, and the parameters those channels will control.



Intensity 50%, Red 100%

If the cielux W500 Tune Blue is set to address 2, it would read channels 2-6 to determine light output.
Here is an example of channels 1-10 of a DMX Universe, and the resulting light behavior:

DMX Channel	1	2	3	4	5	6	7	8	9	10
DMX Value	255	127	0	0	255	0	127	0	0	0
		Intensity	CCT	Violet	Red	Green				