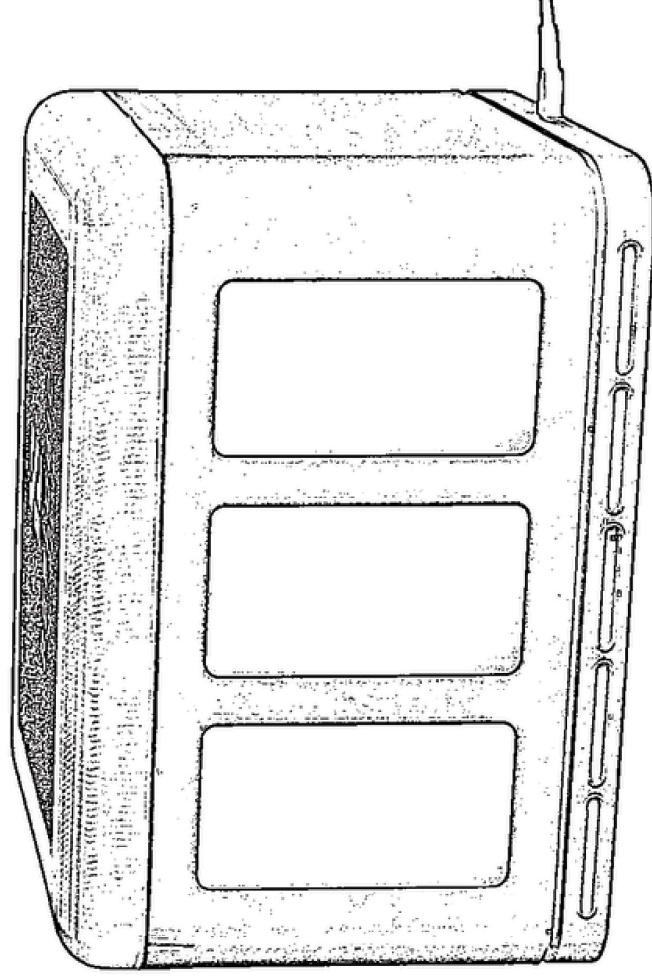
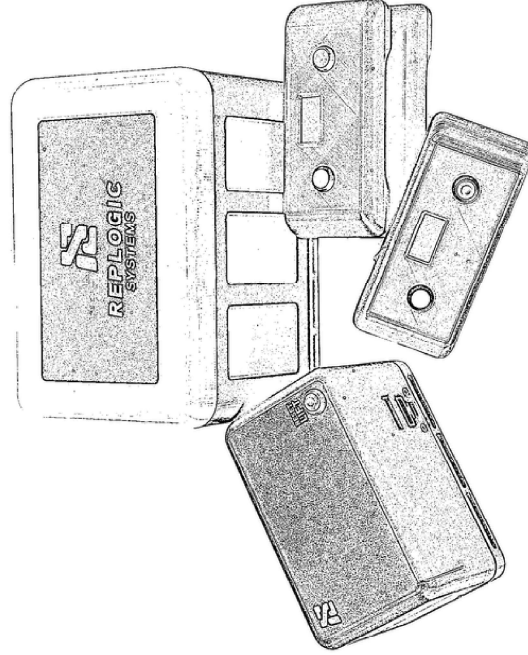


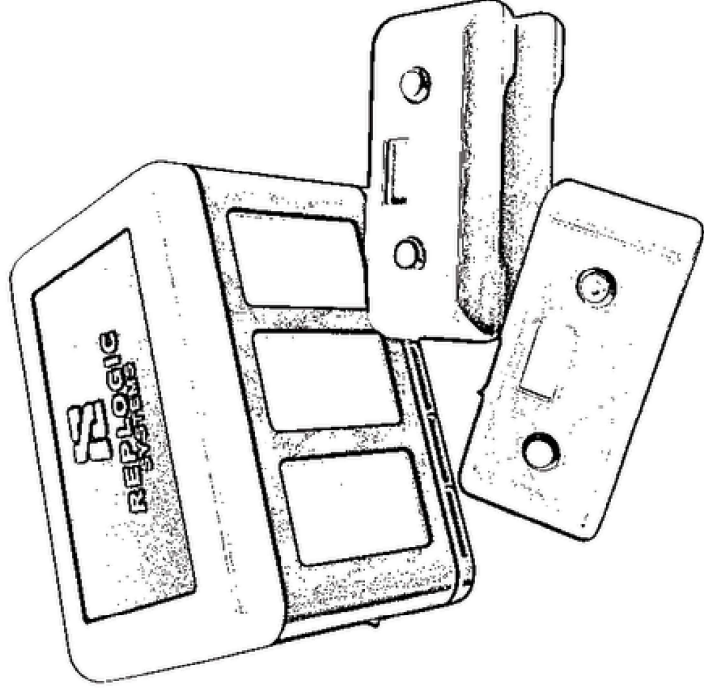
RLSX2 LIGHT SYSTEM USER GUIDE



REPLIC
SYSTEMS

Notes

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins or other markings on the paper.

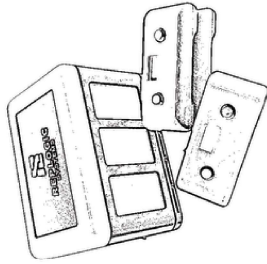


Introduction

User Guide Version 1.0

Welcome to the official user guide for the RLSX2 Olympic Weightlifting Referee Light System by RepLogic Systems. Designed with precision, reliability, and modern competition needs in mind, the RLSX2 System brings a new standard to officiating in Olympic weightlifting. Whether you're running local club competitions or elite-level events, this system ensures seamless decision communication, efficient competition flow, and an intuitive user experience for referees, jury members, and technical officials.

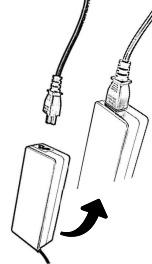
This guide provides clear instructions for setup, operation, troubleshooting, and maintenance of the RLSX2 System. It is intended for event organisers, referees, technical controllers, and support personnel. Please read through each section carefully to ensure safe use and optimal performance of your system.



Quick Start Guide

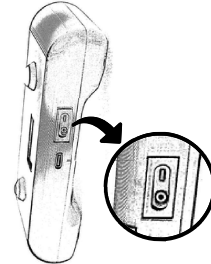
Connect Power Cable

- Join the wall plug to the connector that plugs into the device.
- Complete this step for the second included power cable as well.

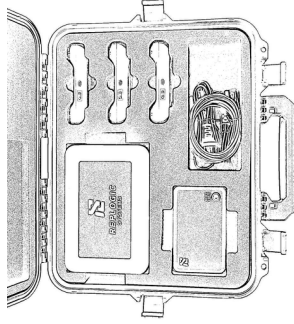


Power Controllers

- Switch on one of the referee controllers using the power switch located at the top.



In The Box



- 1x Decision / Down Signal Lightbox
- 1x Central Control Unit (CCU)
- 3x Wireless Controllers
- 2x Power Cables
- 1x USB C to USB A Network Cable
- 1x Protective Case

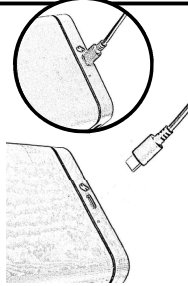
Position Lightbox

- Place the lightbox so the RepLogic logo is upright and facing the referees.
- This ensures each decision light corresponds to the correct referee.



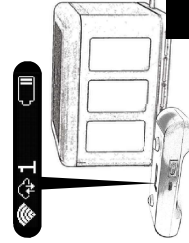
Power Devices

- Plug both power cables into an outlet.
- Plug one the USB-C connectors into the Central Control Unit and the other into the Decision Lightbox.



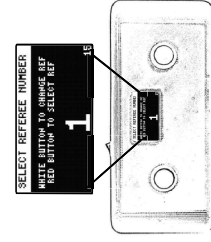
Check Connection

- Check that the controllers indicate that the Wifi & Server are connected
- Ensure there are no flashing lights on the lightbox.



Select Referee

- Press the white button (left) to cycle through referee numbers.
- Press the red button (right) to confirm your selection.

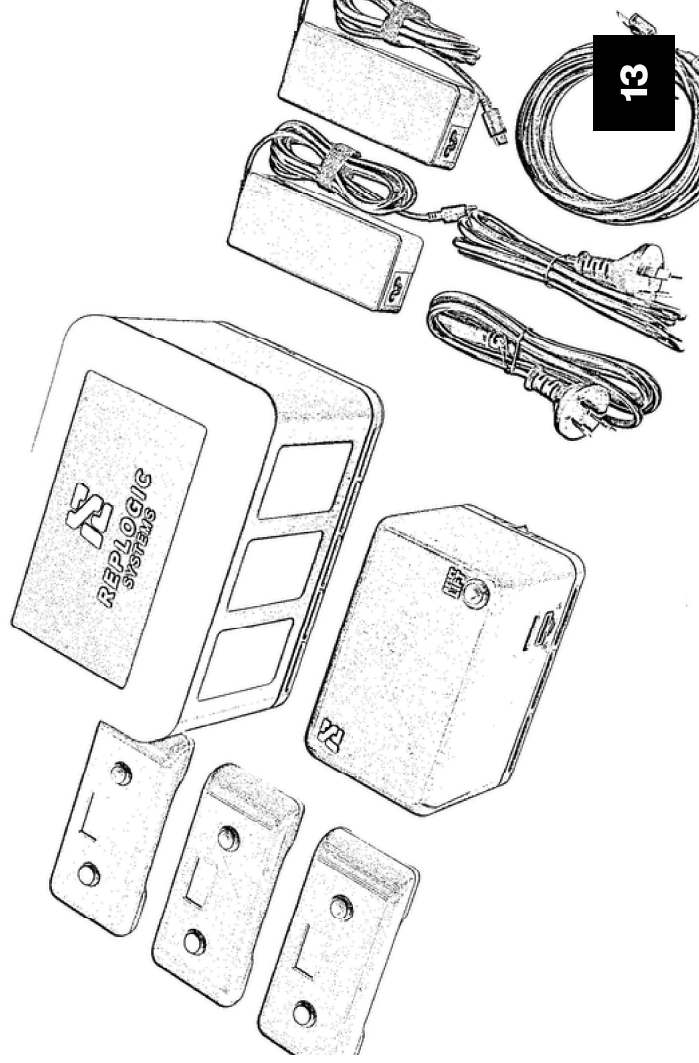


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Contact

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Web: www.replogicsystems.com.au
Email: info@replogicsystems.com.au
Social Media: @replogicsystems



Warranty

How To Make A Warranty Claim

To make a claim under this warranty, please follow the steps below:

1. **Contact Us:** Email us at info@replographicsystems.com.au with the following:
 - o Proof of purchase (invoice or receipt)
 - o Serial number
 - o Description of the fault, including when it first occurred and steps to reproduce it
 - o Any relevant photographs or videos
2. **Return Authorisation:** If required, we will provide you with a return authorisation and instructions for shipping the item to us.
3. **Inspection and Resolution:** Upon receipt, we will inspect and test the product. If the fault is covered by this warranty, we will carry out the necessary remedy (repair, replacement, or refund) within a reasonable timeframe.

Note: The customer is responsible for the cost of shipping the item to ReplLogic Systems unless otherwise agreed. If the claim is valid, return shipping costs will be covered by us.

Consumer Guarantees (ACL)

Under Schedule 2 of the Competition and Consumer Act 2010 (Cth) you are entitled to:

- A refund, replacement, or repair — at your choice — for a major failure;
- A free repair for a minor failure (or, if not done within a reasonable time, a replacement or refund); and
- Compensation for any other reasonably foreseeable loss or damage.

Transferability

This warranty is provided only to the original purchaser of the Product and is not transferable to subsequent owners unless explicitly stated in writing by ReplLogic Systems.

Limitations of Liability

Except as required by the ACL or other mandatory law, ReplLogic Systems' maximum liability for any claim connected with your purchase is limited to the amount paid for the product. We exclude all liability for indirect or consequential loss, loss of data, or loss of profits, except where such exclusion would contravene the ACL.

Governing Law

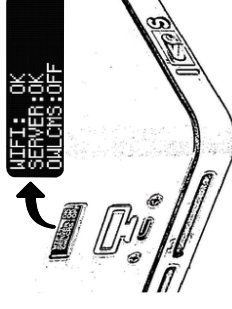
This warranty policy shall be governed by and construed in accordance with the laws of New South Wales, Australia, and is subject to the jurisdiction of the courts of that state.

Policy Updates

We may amend this policy prospectively by posting a revised version on our website. Changes do not affect goods already purchased.

Standalone Mode

Standalone Mode allows the RLSX2 System to operate independently without the need for external software. This mode is ideal for events using alternative competition management systems or for those seeking a simple, self-contained solution for referee decision lights, timing, and jury control. It offers flexibility and reliability without relying on third-party integrations.



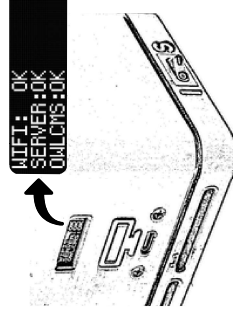
Once you have completed the setup process, ensure the mode switch on the central control unit is set to "S".

This will then set the OWLCMS status on the Central Control Unit display to "OFF".

Standalone mode is now ready to use. Ensure you do one test decision to ensure everything has been set up correctly and is working as normal.

Integrated Mode

Integrated Mode allows the system to sync with OWLCMS, enabling automatic communication between the RLSX2 referee devices and the central competition software. In this mode, referee decisions, timing signals, and jury overrides are seamlessly transmitted to OWLCMS, ensuring real-time updates to scoreboards, livestream overlays, and event displays.



Once you have completed the setup process, ensure the mode switch on the central control unit is set to "I".

This will then set the OWLCMS status on the Central Control Unit display to "OK".

On your computer/laptop, connect to the RLSX2 WiFi using the shown details. Once your device has connected, open your web browser and navigate to **repllogic.local:8080**.

This link will now load OWLCMS. Once you have loaded a competition and started the clock, the RLSX2 system will be ready to use.

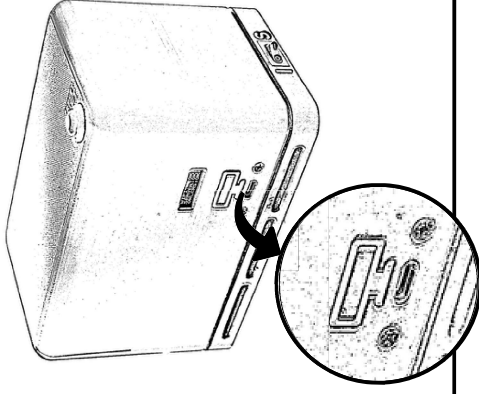


Livestreaming

The RLSX2 System has its own built-in WiFi network, but it does not connect to the internet. To use OWLCMS overlays in your livestream, you'll need to connect the system to a computer with internet access using the included USB A to USB C cable.

Plug the USB C end into the Central Control Unit, and the USB A end into your internet-connected computer or laptop.

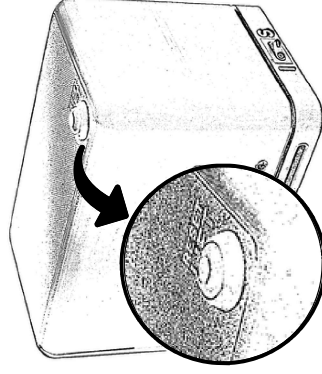
This connection allows the computer to access the OWLCMS software running locally on the RLSX2 system and display the overlays during your livestream.



Reset Lift Button

The Reset Lift Button is located on the top of the Central Control Unit. This button is only active when the system is operating in Standalone Mode. Pressing it will clear all referee decisions from the controllers and the decision lightbox. This is useful if a button is accidentally pressed before the official decision is made.

In Integrated Mode, this function is managed through OWLCMS. To reset the decision lights, the timekeeper can reset the clock to 1 or 2 minutes within the OWLCMS interface, which will have the same effect.



Warranty

Overview

This Warranty Policy applies to all products sold by RepLogic Systems Pty Ltd (ABN 36 683 605 567) ("we", "our", or "us") including, but not limited to, our Olympic Weightlifting Referee Light System and its associated electronic and software components (collectively referred to as the "Product").

This policy is provided in addition to your rights under the Australian Consumer Law (ACL) and does not exclude, restrict, or modify those rights in any way.

Standard Warranty Coverage

Warranty Period

Standard Warranty: All Products sold are covered by a 1-year limited warranty from the original date of purchase, as evidenced by a valid proof of purchase.

Extended Promotional Warranty: For all Products delivered in the 2025 calendar year (01 January 2025 to 31 December 2025 inclusive), we offer a 2-year limited warranty from the date of delivery.

What The Warranty Covers

This warranty covers defects in materials and workmanship in the electronic hardware and software components of the Product under normal use and service conditions, including:

- Wireless referee controllers
- Decision lightbox
- Timekeeper box
- Central control unit
- Jury box and jury controllers
- Firmware or software pre-installed or delivered as part of the Product

If a Product is found to be defective during the warranty period, RepLogic Systems will, at its discretion:

- Repair the Product free of charge; or
- Replace the Product with a new or refurbished unit of the same or comparable model; or
- Refund the original purchase price (if repair or replacement is not commercially viable).

What The Warranty Does Not Covers

This warranty does not cover:

- Damage resulting from misuse, abuse, negligence, or accident
- Damage caused by unauthorised modification, repair, or disassembly
- Damage caused by improper installation or use not in accordance with the product instructions
- Cosmetic damage such as scratches, dents, or normal wear and tear
- Damage caused by power surges, lightning, water ingress, or environmental factors beyond our control
- Consumables or accessories not manufactured by RepLogic Systems
- Third-party software or firmware not supplied by us
- Loss of data or programs due to system failure

TROUBLESHOOTING

Below are common troubleshooting for common issues with the RLSX2 System.

Central Control Unit not connected

If, upon startup, the WiFi or Server status on the Central Control Unit displays "ERR", this is likely due to an issue with the current RLSX2 firmware.

To resolve this, please update the RLSX2 firmware using the Software Portal. Refer to the Software Updates section of this manual for step-by-step instructions.

Not all decision lights lighting up

If the down signal is not being triggered, or if not all three decision lights appear after the down signal, it is likely that multiple controllers are assigned to the same referee number.

To fix this:

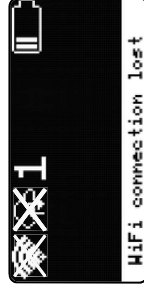
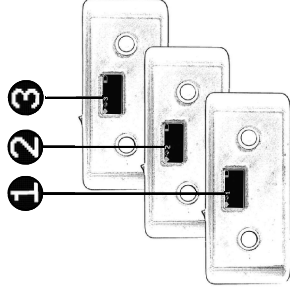
1. Turn all controllers off, then turn them back on to restart the referee assignment process.
2. Ensure that each controller has a unique referee number (e.g. Referee 1, 2, and 3).

Avoid assigning the same referee number to more than one controller, as this will cause communication conflicts with the decision lightbox.

Lost WiFi/Server Connection Warning

If the controller does not connect to the WiFi or server within 30 seconds of powering on, turn the controller off and then back on. If the controller disconnects during use, try power cycling the controller again.

If the issue persists, power off the Central Control Unit, wait a few seconds, and then turn it back on. This will reset the system and often resolves connection problems.



CONTROLLER DISPLAY

The RLSX2 wireless controllers are equipped with a high-contrast OLED display, providing clear visual feedback to the user. The display shows real-time information about system status and competition activity, helping referees stay informed throughout each session.

WiFi Connection



If the WiFi icon has no cross through it then the controller is connected to the internal WiFi network.



If the WiFi icon has a cross through it then the controller is not connected to the internal WiFi network.

Server Connection



If the Server icon has no cross through it then the controller is connected to the internal server.



If the Server icon has a cross through it then the controller is not connected to the internal server.

Referee Number Indicator

- The number displayed represents the referee number that the controller is allocated to.
 - 1 = Left Referee
 - 2 = Centre Referee
 - 3 = Right Referee
- Ensure each controller is assigned to a unique referee number

Referee Number



Decision Display

Once the referee has pressed either the ref or white button, their decision (either "GOOD LIFT" or "NO LIFT") is displayed on screen so the referee can verify the correct decision has been logged for that lift.

NO LIFT

GOOD LIFT

Decision Reminder

If there is a split decision and the third referee has not made a decision within 3 seconds, their controller will provide haptic feedback and will display a "MAKE DECISION" warning.

MAKE DECISION

Required for down signal

Jury Summon

If the jury summons the referees, the referee controller will provide haptic feedback for 5 seconds and display a "JURY SUMMON" warning. If the jury summons a specific referee then this warning will only apply to their controller.

SUMMONED

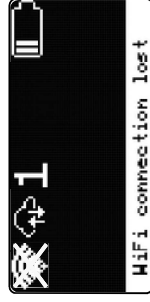
Please see the Jury

CONTROLLER WARNINGS

The RLSX2 wireless controllers display various warnings to help with system troubleshooting. If multiple warnings are triggered at the same time, the controller will prioritise and display the most critical one first, in the following order:

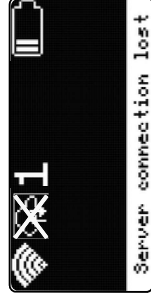
Lost WiFi Connection Warning

If the controller is not connected to the internal WiFi network, it will display a "WiFi connection lost" warning. This message will remain on the screen until the controller successfully reconnects. In addition to the warning message, a crossed-out WiFi icon will also appear at the top of the display as a visual indicator of the disconnection.



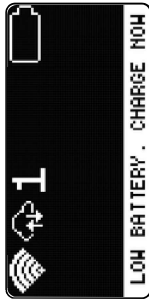
Lost Server Connection Warning

If the controller is not connected to the internal server, it will display a "Server connection lost" warning. This message will remain visible until the connection is restored. A crossed-out server icon will also appear at the top of the display to provide a clear visual indication of the issue.



Low Battery Warning

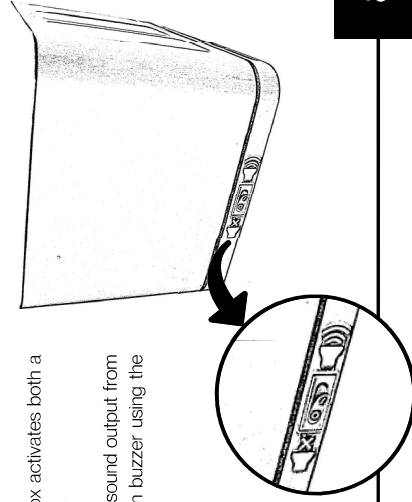
When the battery level drops to a critically low point, the controller will display the message: "LOW BATTERY. CHARGE NOW." This warning will remain on the screen until the battery is charged above the critical level. If this warning appears during use, connect the controller to a charger as soon as possible to avoid interruption.



DOWN SIGNAL SOUND

When the down signal is triggered, the Lightbox activates both a visual indicator and a 15-second buzzer sound.

If you prefer to use an external buzzer or the sound output from OWLCMS instead, you can disable the built-in buzzer using the mute switch on the Lightbox.



Software Updates

To update your RLSX2 System or the Software Portal, follow the steps below.
Note: The RLSX2 WiFi network does not have internet access, so you must download update files using a separate internet-connected computer before connecting to the system.

Download the Update File

- Using any device with internet access, go to: www.repllogicsystems.com.au/update
- Download the latest ZIP file for either:
 - RLSX2 Firmware Update, or
 - Software Portal Update
- Save the ZIP file to a USB drive or transfer it to the device you'll use to update the system.

Accessing the Software Portal

- Connect your laptop or computer to the RLSX2 WiFi network.
- Open a web browser and go to: <http://ReplLogic.local:5000>
- This will open the ReplLogic Software Portal

RLSX2 Firmware Update

This updates the system software and OWLCMS firmware.

- Click Download Current Files to back up the existing zip file
- In the Software Portal, select RLSX2 Firmware Update from the drop-down menu.
- Upload the ZIP file you downloaded earlier.
- Click Upload & Install.
- Wait for the message: "Update successful"

Software Portal Update

This updates the portal interface itself.

- In the Software Portal, select Software Portal Update from the drop-down menu.
- Upload the appropriate ZIP file.
- Click Upload & Install.
- Wait for the message: "Update successful"

