

**Kessil 924035**

# Kessil Spectral Controller X User Manual

Model: 924035

## INTRODUCTION

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Image: The Kessil Spectral Controller X, a sleek black device with a digital display and control buttons, designed for managing aquarium lighting.

The Kessil Spectral Controller X is an advanced light control device designed for Kessil aquarium lights. It features a vivid color display and intuitive touch control, enabling precise customization of light schedules and intensity for optimal aquatic environments. This manual provides detailed instructions for setting up, operating, and maintaining your Spectral Controller X.

The controller supports both the new K-Link communication method for A360X series lights and the traditional 0-10V output for older Kessil models, offering versatile compatibility for various aquarium setups.

## PACKAGE CONTENTS

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Please verify that all items listed below are included in your package:

- Spectral Controller (x1)
- Magnetic Back Plate (x1)
- Micro USB Cable (for firmware updates) (x1)
- K-Link Cable (10') (x1)

- Screws (x2)
- Nylon Anchor (x2)

## SETUP

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Follow these steps to set up your Kessil Spectral Controller X:

1. **Mounting the Controller:** Use the included Magnetic Back Plate to securely mount the controller to a suitable surface. The plate can be attached using the provided screws and nylon anchors if needed.
2. **Connecting to Kessil A360X Lights (K-Link):**

Connect the included 10' K-Link Cable from the K-Link port on the Spectral Controller X to the K-Link input on your Kessil A360X Tuna Sun or A360X Tuna Blue light. For multiple A360X lights, daisy-chain them using additional K-Link Cables (sold separately). The controller can network up to 32 fixtures per chain.



Image: The Kessil Spectral Controller X displaying its user interface, with the K-Link and 0-10V ports visible at the bottom. The screen shows options for Dashboard, Programs, and Settings, along with light intensity and color settings.

3. **Connecting to Kessil 0-10V Lights:**

For Kessil 0-10V light fixtures (A360WE, A360NE, A80, A160), use the 0-10V output port on the controller. An older Unit Link Cable (not included with Controller X) is required for these connections.

4. **Powering On:** Ensure all connections are secure. The controller will power on once connected to a

compatible Kessil light that is powered.

5. **Firmware Update:** If necessary, connect the Micro USB Cable to the controller and a computer to perform firmware updates.

## OPERATING INSTRUCTIONS

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The Spectral Controller X offers two primary modes for light control:

### Manual Mode

In Manual Mode, you can directly adjust the color and intensity of your Kessil lights in real-time. This mode is ideal for on-demand light customization, allowing you to fine-tune settings instantly to observe your aquarium or make quick adjustments.

- Navigate to the Manual Mode section on the controller's display.
- Use the touch controls to increase or decrease light intensity and adjust color spectrums (e.g., violet, red, green, blue).
- Changes made in Manual Mode are applied immediately.

### Program Mode

Program Mode allows you to create and save customized light schedules to match the specific needs of your aquarium and its inhabitants. You can set up to 12 distinct programs.

- Access the Program Mode section from the main menu.
- Choose from two methods for setting your customized light schedule.
- Define specific time points throughout the day and set the desired light intensity and color for each point. The controller will then smoothly transition between these settings.
- Save your programs for future use or to apply them to different groups of lights.

### K-Link Communication (for A360X Series)

The K-Link method facilitates advanced communication with Kessil A360X lights. It allows you to:

- Network multiple A360X lights (up to 32 fixtures) on a single chain.
- Set individual groups of lights to run their own distinct programs.
- Benefit from two-way communication, enabling the controller to detect the number of lights in the network and their current status.

### 0-10V Communication (for Older Kessil Models)

The 0-10V port provides compatibility with Kessil's older 0-10V light fixtures, including the A360WE, A360NE, A80, and A160. Ensure you use the appropriate Unit Link Cable for these connections.

## MAINTENANCE

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To ensure the longevity and optimal performance of your Kessil Spectral Controller X:

- Keep the controller clean by wiping it with a soft, dry cloth. Avoid using abrasive cleaners or solvents.
- Ensure the controller is kept in a dry environment and away from direct water splashes, as it is not waterproof.
- Regularly check cable connections to ensure they are secure and free from damage.

- Periodically check for and install any available firmware updates using the Micro USB cable to ensure the controller has the latest features and bug fixes.

## TROUBLESHOOTING

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If you encounter issues with your Spectral Controller X, consider the following common solutions:

Problem	Possible Cause / Solution
Controller not powering on.	Ensure the Kessil light connected to the controller is powered on. Check all cable connections (K-Link or 0-10V) for proper seating.
Lights not responding to controller.	Verify the correct communication method (K-Link for A360X, 0-10V for older models) is selected and cables are connected properly. Ensure the lights are compatible with the controller. For K-Link, check if the controller detects the lights in the network.
Difficulty programming light schedules.	Refer to the Program Mode section of this manual. The interface may require some familiarity. Experiment with setting simple schedules first. Ensure you are saving your programs correctly.
Screen is unresponsive or frozen.	Try disconnecting and reconnecting the controller from the light to perform a soft reset. If the issue persists, check for available firmware updates.

If you continue to experience issues, please contact Kessil customer support for further assistance.

## SPECIFICATIONS

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Feature	Detail
Model Name	Kessil Spectral Controller X
Model Number	924035
UPC	092145343722
Dimensions (LxWxH)	2.2 x 0.98 x 0.22 inches
Item Weight	10.6 ounces (0.3 Kilograms)
Color	Black
Material	Nylon
Control Method	Touch
Connectivity Technology	USB (for firmware updates)
Power Source	Corded Electric (powered by connected light)

Feature	Detail
Voltage	10 Volts
Water Resistance Level	Not Water Resistant
Mounting Type	Tabletop (with magnetic back plate)
Included Components	Spectral Controller, Magnetic Back Plate, Micro USB Cable, K-Link Cable (10'), Screws, Nylon Anchor

## WARRANTY AND SUPPORT

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For warranty information or technical support regarding your Kessil Spectral Controller X, please refer to the official Kessil website or contact Kessil customer service directly. You can also visit the [Kessil Store on Amazon](#) for additional product information and resources.