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## Spectra Projection Helios

# Spectra Projection Helios Fresnel ALR Projector Screen (120-inch) User Manual

Model: Helios

## INTRODUCTION

This manual provides comprehensive instructions for the setup, operation, maintenance, and troubleshooting of your Spectra Projection Helios Fresnel ALR Projector Screen. Designed for ultra short throw (UST) projectors, this 120-inch screen utilizes advanced Fresnel Ambient Light Rejecting (ALR) technology to deliver bright and vivid images even in well-lit environments.

Please read this manual thoroughly before installation and use to ensure optimal performance and longevity of your projector screen.

## SETUP AND INSTALLATION

### 1. Unpacking

- Carefully open the packaging and remove all components.
- Inspect the screen and frame for any signs of damage. If damage is found, contact customer support immediately.
- Ensure all parts listed in the packing list (refer to your product packaging) are present.

### 2. Wall Mounting

The Spectra Projection Helios screen is designed for wall mounting. Professional installation is recommended due to the size and precision required for optimal viewing.

1. **Select Location:** Choose a flat wall surface free from obstructions. Ensure the wall can support the screen's weight (approximately 30 pounds).
2. **Measure and Mark:** Determine the desired height and center point for the screen. Use a level to mark the positions for the mounting brackets according to the provided template (if included) or measurements in the assembly guide.
3. **Install Brackets:** Securely attach the wall mounting brackets to the marked positions using appropriate hardware for your wall type (e.g., wall anchors for drywall, screws for studs).
4. **Assemble Frame (if required):** Follow the separate assembly instructions for the screen frame.
5. **Attach Screen Material:** Carefully attach the screen material to the frame, ensuring it is taut and wrinkle-free.
6. **Mount Screen:** With assistance, lift the assembled screen and carefully hook it onto the installed wall brackets. Ensure it is securely seated and level.



Figure 1: The Spectra Projection Helios screen installed with a UST projector.

### 3. Projector Placement

This screen is specifically designed for Ultra Short Throw (UST) projectors. The projector must be placed directly below the screen, very close to the wall, projecting upwards onto the screen surface. Refer to your projector's manual for exact placement distances and keystone correction settings.



Figure 2: Simulated surface detail of the Fresnel ALR screen, illustrating its light-directing properties.

## OPERATING INSTRUCTIONS

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The Spectra Projection Helios screen is a passive display surface. Its operation is directly linked to your Ultra Short Throw projector. Ensure your projector is correctly aligned and calibrated for the best viewing experience.

### Ambient Light Rejection (ALR) Technology

The screen features advanced Fresnel ALR technology. This specialized optical surface is engineered to reflect light from the UST projector directly to the viewer while absorbing or deflecting ambient light from other angles. This results in a bright, high-contrast image even in rooms with significant ambient light, making it suitable for daytime viewing.

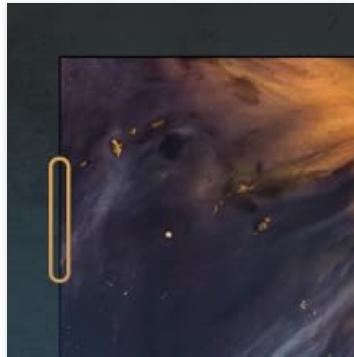


Figure 3: Illustration of Fresnel ALR technology, showing light paths.

### 8-Layer Optical Surface Structure

The screen's performance is enhanced by an 8-layer optical surface structure. Each layer contributes to image quality, color accuracy, and durability. These layers include anti-glare, color plane, diffusion, columnar, speckle diffusion, Fresnel, reflecting, and blackened layers, working in concert to optimize the projected image.



Figure 4: Detailed view of the 8-layer optical surface structure.

## MAINTENANCE

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### Cleaning the Screen Surface

- Dust Removal:** Gently wipe the screen surface with a soft, dry, lint-free microfiber cloth to remove dust.
- Spot Cleaning:** For smudges or fingerprints, lightly dampen a clean microfiber cloth with distilled water. Wipe the affected area gently in one direction. Do not rub vigorously.
- Avoid Chemicals:** Never use harsh chemicals, solvents, alcohol-based cleaners, or abrasive materials on the screen surface, as these can damage the optical layers.
- Pressure:** Do not apply excessive pressure when cleaning, as this can cause permanent damage or distortion to the screen material.

## General Care

- Avoid touching the screen surface directly with bare hands.
- Keep the screen away from direct sunlight or strong heat sources when not in use, if possible, to prevent material degradation.
- Ensure the screen is not exposed to sharp objects that could scratch or puncture the surface.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
Image appears dim or washed out.	Incorrect projector placement; excessive ambient light; projector settings.	<ul style="list-style-type: none"><li>◦ Ensure the UST projector is positioned correctly directly below the screen.</li><li>◦ Minimize direct light sources hitting the screen if possible, although ALR reduces this effect.</li><li>◦ Check projector brightness and contrast settings.</li></ul>
Image has hot spots or uneven brightness.	Projector misalignment; screen not perfectly flat.	<ul style="list-style-type: none"><li>◦ Re-align the projector carefully, ensuring it is centered and level with the screen.</li><li>◦ Verify the screen is mounted flat against the wall without any warping or tension issues.</li></ul>
Visible lines or patterns on the screen.	Moiré effect (interaction between projector pixels and screen texture); screen damage.	<ul style="list-style-type: none"><li>◦ Slightly adjust projector distance or angle to minimize moiré.</li><li>◦ Inspect the screen for physical damage.</li></ul>
Dust or smudges on the screen.	Accumulated dust; accidental touching.	<ul style="list-style-type: none"><li>◦ Refer to the "Cleaning the Screen Surface" section for proper cleaning methods.</li></ul>

If the problem persists after attempting these solutions, please contact Spectra Projection customer support.

## SPECIFICATIONS

Feature	Detail
Brand	Spectra Projection
Model Name	Helios
Display Dimensions	120 inches
Product Dimensions (W x H)	104.6"W x 49"H
Material	Fresnel (Ambient Light Rejecting)
Mounting Type	Wall Mount
Item Weight	30 pounds

Feature	Detail
Compatibility	Ultra Short Throw (UST) Projectors

## WARRANTY INFORMATION

For detailed warranty information regarding your Spectra Projection Helios Fresnel ALR Projector Screen, please refer to the warranty card included with your product or visit the official Spectra Projection website. Warranty terms and conditions may vary by region and retailer.

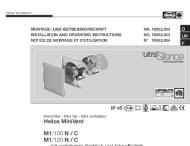
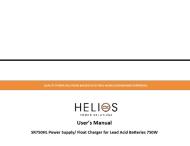
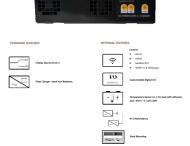
## CUSTOMER SUPPORT

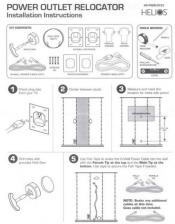
If you require assistance, have questions about your product, or need technical support, please contact Spectra Projection customer service. Contact details can typically be found on the manufacturer's website or on the product packaging.

**Online Resources:** Visit the [Spectra Projection brand page on Amazon](#) for additional product information and support.

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## Related Documents - Helios

	<p><a href="#">Helios Core User Guide: Setup and Performance Tracking</a></p> <p>A comprehensive guide to setting up and using the Helios Core wearable device for hockey performance tracking, including app integration and charging instructions.</p>
	<p><a href="#">Helios MiniVent M1/100/120 N/C Installation and Operating Instructions</a></p> <p>Comprehensive guide for the installation and operation of Helios MiniVent M1/100/120 N/C mini fans. Covers safety, electrical connections, cleaning, maintenance, and troubleshooting.</p>
	<p><a href="#">Helios SR750HL 750W Power Supply/Float Charger User Manual</a></p> <p>This user manual provides detailed information on the Helios SR750HL 750W Power Supply and Float Charger. It covers safety precautions, product features, technical specifications, operational guidelines, model coding, and warranty information for lead acid battery applications.</p>
	<p><a href="#">Helios Hidden IR Repeater System AS-IRKIT Installation and Operation Guide</a></p> <p>This guide provides instructions for installing and operating the Helios Hidden IR Repeater System AS-IRKIT, allowing remote control of A/V components behind closed doors or walls.</p>

	<p><b><a href="#">Helios HS-PWRLOC01 Power Outlet Relocator Installation Guide</a></b></p> <p>Detailed installation instructions for the Helios HS-PWRLOC01 Power Outlet Relocator, enabling the creation of a secondary power outlet behind wall-mounted equipment. Includes kit contents, tools needed, and step-by-step guidance.</p>
	<p><b><a href="#">HELIOS P2 850G Power Supply Unit Quick Guide</a></b></p> <p>A concise guide to the HELIOS P2 850G 850W 80 PLUS Gold fully modular power supply unit, covering key features, technical specifications, installation overview, and safety precautions.</p>

## Documents - Spectra Projection – Helios

 <p><b>CIPRO PUBLICATION</b></p> <p>25 February 2011</p> <p><b>Publication No. 201115</b></p> <p>Notice No. 25 (Deregistrations)</p> <p>Page 1   201115 Deregistrations Act - 27 February 2011, Volume 103, Part 1, 2011-03-08</p>	<p><b><a href="#">CIPRO Publication 201115: Official Notice of Deregistered Close Corporations</a></b></p> <p>View the official CIPRO Publication No. 201115, a notice dated 25 February 2011, detailing the deregistration of numerous close corporations in South Africa. Find official records of cancelled company registrations.</p> <p>lang:af score:7 filesize: 8.27 M page_count: 2669 document date: 2011-03-08</p>
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