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Spectra Projection 110" Diagonal Size - HDTV[16:9]

Spectra Projection Vantage UST Projector Screen 110-inch Diagonal User Manual

MODEL: 110" DIAGONAL SIZE - HDTV[16:9]

Brand: Spectra Projection

1. INTRODUCTION

This manual provides comprehensive instructions for the assembly, installation, operation, and maintenance of your Spectra Projection Vantage UST Projector Screen. This screen is specifically designed for Ultra Short Throw (UST) projectors, featuring an Ambient Light Rejecting (ALR) surface to enhance image quality in various lighting conditions. Please read this manual thoroughly before proceeding with assembly and installation to ensure proper setup and optimal performance.



Image 1.1: The Spectra Projection Vantage UST Projector Screen in a typical home theater setup.

2. SAFETY INFORMATION

- Always handle the screen material with clean hands to avoid smudges or damage.
- Ensure the installation surface is structurally sound and capable of supporting the screen's weight.
- Keep small parts out of reach of children to prevent choking hazards.
- Do not attempt to modify the screen or its components. Unauthorized modifications may void the warranty and pose safety risks.
- During assembly, follow all steps carefully to prevent injury or damage to the product.

3. PACKAGE CONTENTS

Before beginning assembly, verify that all components listed below are present in your package. If any parts are missing or damaged, please contact customer support.

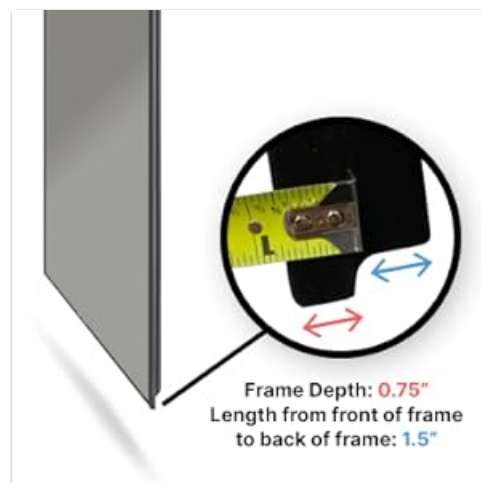


Image 3.1: The Spectra Projection Vantage UST Screen is shipped unassembled in a protective box.

- Screen Material (1)
- Frame Sections (4)
- Corner Connectors (4)
- Tension Rods (Quantity varies by size)
- Wall Mount Brackets (2)
- Hardware Kit (Screws, anchors, etc.)
- Instruction Manual (This document)

4. SETUP AND INSTALLATION

The Spectra Projection Vantage UST Screen requires assembly prior to use. It is recommended to have two people for assembly and installation. Refer to the detailed step-by-step guide included in the package or online videos for visual assistance.

4.1 Frame Assembly

1. Unpack all components carefully on a clean, flat surface.
2. Connect the four frame sections using the corner connectors. Ensure they are securely fastened.
3. Lay the screen material face down onto the assembled frame.
4. Carefully insert the tension rods into the designated channels around the perimeter of the screen material. These rods will then attach to the frame to keep the screen taut.

Important: Ensure the tension rods are correctly inserted and the screen material is evenly stretched to prevent wrinkles or tearing. Refer to the specific instructions for rod insertion to avoid issues such as those reported where rods did not fit correctly or caused tearing.



Image 4.1: The luxurious black velvet frame helps absorb overflow light and aids in alignment.

4.2 Wall Mounting

The screen is designed for wall mounting. Use the provided wall mount brackets and hardware.

- Determine the desired height and center position for your screen.
- Mark the drilling locations for the wall mount brackets. Ensure the marks are level and spaced correctly according to the screen's dimensions.
- Drill pilot holes and install the wall anchors (if necessary) before securing the brackets to the wall.
- Carefully lift the assembled screen and hook it onto the installed wall mount brackets.

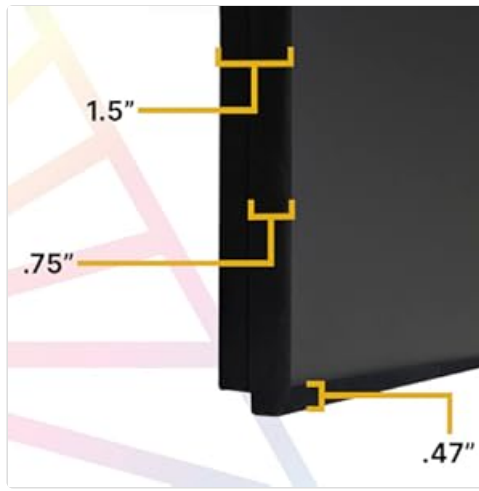


Image 4.2: Example of a wall mount bracket used for installation.



Image 4.3: Frame depth and length measurements for installation planning.

5. OPERATING INSTRUCTIONS

The Spectra Projection Vantage UST Screen is designed to optimize the performance of Ultra Short Throw projectors. Its Ambient Light Rejecting (ALR) surface is engineered to absorb ambient light from above and the sides, while reflecting light from the UST projector below, directly back to the viewer.

5.1 Projector Placement

Position your Ultra Short Throw projector directly below the screen, ensuring the projection angle aligns with the screen's ALR properties. The screen's design prevents hot-spots and maintains deep black levels, even in rooms with ambient light.



Image 5.1: Proper placement of an Ultra Short Throw projector relative to the screen.

5.2 Ambient Light Rejection

The specialized optical structure of the ALR surface selectively reflects light from the projector while absorbing light from other angles. This results in improved contrast, color saturation, and overall image clarity, even in well-lit environments.

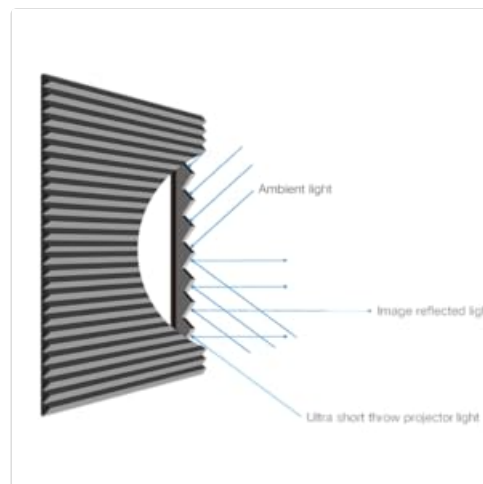


Image 5.2: Diagram explaining the principle of Ambient Light Rejection.



Image 5.3: Visual comparison of Vantage UST 0.5 screen performance versus a standard matte white screen.

6. MAINTENANCE

To maintain the optimal performance and appearance of your Spectra Projection Vantage UST Screen, follow these guidelines:

- **Cleaning the Screen Surface:** Gently wipe the screen surface with a soft, lint-free microfiber cloth. For stubborn marks, lightly dampen the cloth with distilled water. Do not use harsh chemicals, abrasive cleaners, or excessive pressure, as this can damage the ALR coating.
- **Cleaning the Frame:** The black velvet frame can be gently dusted with a soft brush or a vacuum cleaner with a brush attachment.
- **Storage:** If the screen needs to be disassembled and stored, ensure it is kept in a clean, dry environment, protected from direct sunlight and extreme temperatures.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your projector screen.

Problem	Possible Cause	Solution
Screen material is not taut or has wrinkles.	Tension rods not properly inserted or frame not assembled correctly.	Review Section 4.1 Frame Assembly. Ensure all tension rods are fully seated in their channels and securely attached to the frame. Disassemble and reassemble if necessary, following instructions carefully.
Image appears dim or washed out.	Incorrect projector placement or excessive ambient light.	Ensure your projector is an Ultra Short Throw (UST) model and is positioned correctly below the screen. Minimize direct light sources hitting the screen surface from above or the sides.
Screen material tearing during assembly.	Improper handling or incorrect insertion of tension rods.	Handle screen material with extreme care. Ensure tension rods are inserted smoothly and without force. If tearing occurs, contact customer support for assistance.

8. SPECIFICATIONS

Feature	Detail
Model Number	110" Diagonal Size - HDTV[16:9]
Diagonal Size	110 inches
Aspect Ratio	16:9 HDTV
Screen Surface	Ambient Light Rejecting (ALR)
Gain	0.5
Resolution Support	4K+

Feature	Detail
Mounting Type	Wall Mount
Frame Material	Black Velvet
Manufacturer	Spectra Projection

9. WARRANTY AND SUPPORT

For warranty information, technical support, or to inquire about replacement parts, please contact Spectra Projection customer service. Refer to the product packaging or the official Spectra Projection website for the most current contact details.

Online resources, including detailed setup videos, may be available to assist with assembly and troubleshooting.