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› Optoma UHD51A 4K UHD Smart Home Theater Projector User Manual

Optoma UHD51A

Optoma UHD51A 4K UHD Smart Home Theater Projector User Manual

Model: UHD51A

INTRODUCTION

This user manual provides detailed instructions for the setup, operation, maintenance, and troubleshooting of your Optoma UHD51A 4K UHD Smart Home Theater Projector. Please read this manual thoroughly before using the projector to ensure proper and safe operation.

The Optoma UHD51A is designed to deliver an immersive home cinematic experience with its 4K Ultra HD resolution, 2,400 lumens of brightness, wide color gamut support, and HDR compatibility. It also features smart home integration with Amazon Alexa and Google Assistant for convenient voice control.

IMPORTANT SAFETY INFORMATION

Always follow basic safety precautions when using this product to reduce the risk of fire, electric shock, or injury to persons.

- Do not block ventilation openings.
- Do not expose to rain or moisture.
- Refer all servicing to qualified service personnel.
- Use only attachments/accessories specified by the manufacturer.

SETUP

Unpacking and Initial Inspection

Carefully remove the projector from its packaging. Ensure all components are present and undamaged. The package should include the projector, power cord, remote control, and user manual.

Placement

The Optoma UHD51A offers flexible installation options, including ceiling mounting or table placement. Consider the throw distance and screen size for optimal viewing.

- **Throw Ratio:** 1.21 – 1.59
- **Optical Zoom:** 1.3x manual zoom
- **Vertical Lens Shift:** 15% offset (with tolerance +/- 5%)

For best results, position the projector perpendicular to the screen. Adjust the projector's feet or mounting bracket to ensure a level image.



Figure 1: Projector placement and throw distance example. The diagram illustrates a projector positioned 10.5 feet from a wall, projecting a 120-inch image.

Connections

Connect your video sources (Blu-ray player, gaming console, streaming device) to the projector's HDMI inputs. Ensure HDMI 2.0 inputs with HDCP 2.2 support are used for 4K UHD content at 60Hz refresh rates.

- **HDMI 1:** Connect primary video source.
- **HDMI 2:** Connect secondary video source.
- **USB:** For media playback or firmware updates.
- **Audio Out:** For external audio systems.

For smart home features, ensure the projector is connected to your Wi-Fi network.

OPERATING INSTRUCTIONS

Powering On/Off

Press the power button on the remote control or the projector's control panel to turn the unit on. Allow a few moments for the projector to warm up and display the image. To power off, press the power button again and confirm shutdown if prompted.

Image Adjustment

- **Focus:** Rotate the focus ring on the lens until the image is sharp.
- **Zoom:** Use the zoom ring on the lens to adjust the image size.
- **Keystone Correction:** Use the keystone correction feature in the projector's menu to square the image if the projector is not perfectly perpendicular to the screen.
- **Vertical Lens Shift:** Adjust the vertical lens shift dial to move the image up or down without tilting the projector.

Source Selection

Use the "Source" button on the remote or control panel to cycle through available input sources (HDMI 1, HDMI 2, USB, etc.).

Smart Features (Alexa & Google Assistant)

The Optoma UHD51A supports voice control via Amazon Alexa and Google Assistant. Ensure your projector is connected to your home network and linked to your smart assistant account.

- **Voice Commands:** Use commands like "Alexa, turn on projector," "Hey Google, change input to HDMI 1," or "Alexa, increase volume on projector."
- **Setup:** Refer to the Optoma SmartProjection for Smarthome guide for detailed setup instructions for Alexa Skills and Custom Skills.

Your browser does not support the video tag.

Video 1: Official Optoma video demonstrating the UHD51ALV projector, which shares similar smart features with the UHD51A, including Amazon Alexa and Google Assistant compatibility. This video highlights the ease of voice control for various projector functions.

MAINTENANCE

Lamp Life and Replacement

The Optoma UHD51A features a long lamp life of up to 15,000 hours. When the lamp reaches the end of its life, a warning message will appear on the screen. Replace the lamp promptly to maintain optimal performance.

- **Warning:** Do not touch the lamp immediately after use as it will be extremely hot.
- **Replacement:** Refer to the detailed lamp replacement instructions in the full user manual (PDF) available on the product support page.

Cleaning

- **Projector Casing:** Use a soft, lint-free cloth dampened with a mild, non-abrasive cleaner.
- **Lens:** Use a lens cleaning cloth and lens cleaning solution specifically designed for optical surfaces. Avoid harsh chemicals.
- **Air Filter:** Regularly check and clean the air filter to prevent dust buildup and ensure proper ventilation.

TROUBLESHOOTING

This section addresses common issues you might encounter with your Optoma UHD51A projector. For more complex problems, please contact Optoma customer support.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
No image on screen	Power cable disconnected. Incorrect input source selected. Source device not powered on or connected.	Check power connections. Select the correct input source. Ensure source device is on and connected properly.
Image is blurry	Lens out of focus. Projector not perpendicular to screen.	Adjust the focus ring on the lens. Use keystone correction or reposition the projector.
No sound	Volume too low. Audio cable disconnected. External audio system not configured.	Increase volume on projector or source. Check audio cable connections. Ensure external audio system is properly connected and selected.
"Internal Fan Lock error"	Fan malfunction or obstruction.	Turn off the projector, unplug it, and wait for it to cool down. Check for any obstructions around the fan vents. If the error persists, contact customer support.

SPECIFICATIONS

Feature	Detail
Brand	Optoma
Model Number	UHD51A
Display Resolution	4K UHD (3840 x 2160 pixels)
Brightness	2400 lumens
Contrast Ratio	Up to 500,000:1 (Dynamic Black)
Lamp Life	Up to 15,000 hours
Connectivity Technology	USB, Wireless, HDMI 2.0 with HDCP 2.2
Special Features	SmartProjection for Smarthome (Alexa Skills, Google Assistant), Vertical Lens Shift (15% offset)
Item Weight	11.75 pounds
Product Dimensions	5.1 x 15.4 x 11.1 inches

Feature	Detail
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WARRANTY INFORMATION

Optoma provides a limited warranty for its products. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Optoma website. Keep your proof of purchase for warranty claims.

Extended protection plans may also be available for purchase to provide additional coverage beyond the standard warranty period.

CUSTOMER SUPPORT

If you require further assistance or encounter issues not covered in this manual, please contact Optoma customer support.

- **Online Support:** Visit the [Optoma Store on Amazon](#) for product information and support resources.
- **User Manual (PDF):** A detailed PDF user manual is available for download [here](#).