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› Optoma UHD38X 4K UHD Projector User Manual

Optoma UHD38x

Optoma UHD38X 4K UHD Projector User Manual

Model: UHD38x

Brand: Optoma

1. INTRODUCTION

The Optoma UHD38X is a high-performance 4K UHD projector designed for immersive home entertainment and gaming. It delivers stunning true 4K UHD images with exceptional brightness and clarity. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your projector to ensure optimal performance and longevity.



Image 1.1: The Optoma UHD38X 4K UHD Projector, showcasing its sleek white design and front lens.

2. WHAT'S IN THE BOX

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

- UHD38x Projector
- Quick Start User Manual
- Remote Control
- Batteries for Remote Control
- Power Cable

3. SETUP

3.1 Physical Placement

Proper placement of your projector is crucial for achieving the best image quality. The UHD38X is a standard throw projector, suitable for ceiling-mounted or shelf placement. Refer to the projection distance chart for recommended distances based on desired screen size.

UHD38X Standard Throw Projection Distance

Ceiling-mounted or Shelf placement

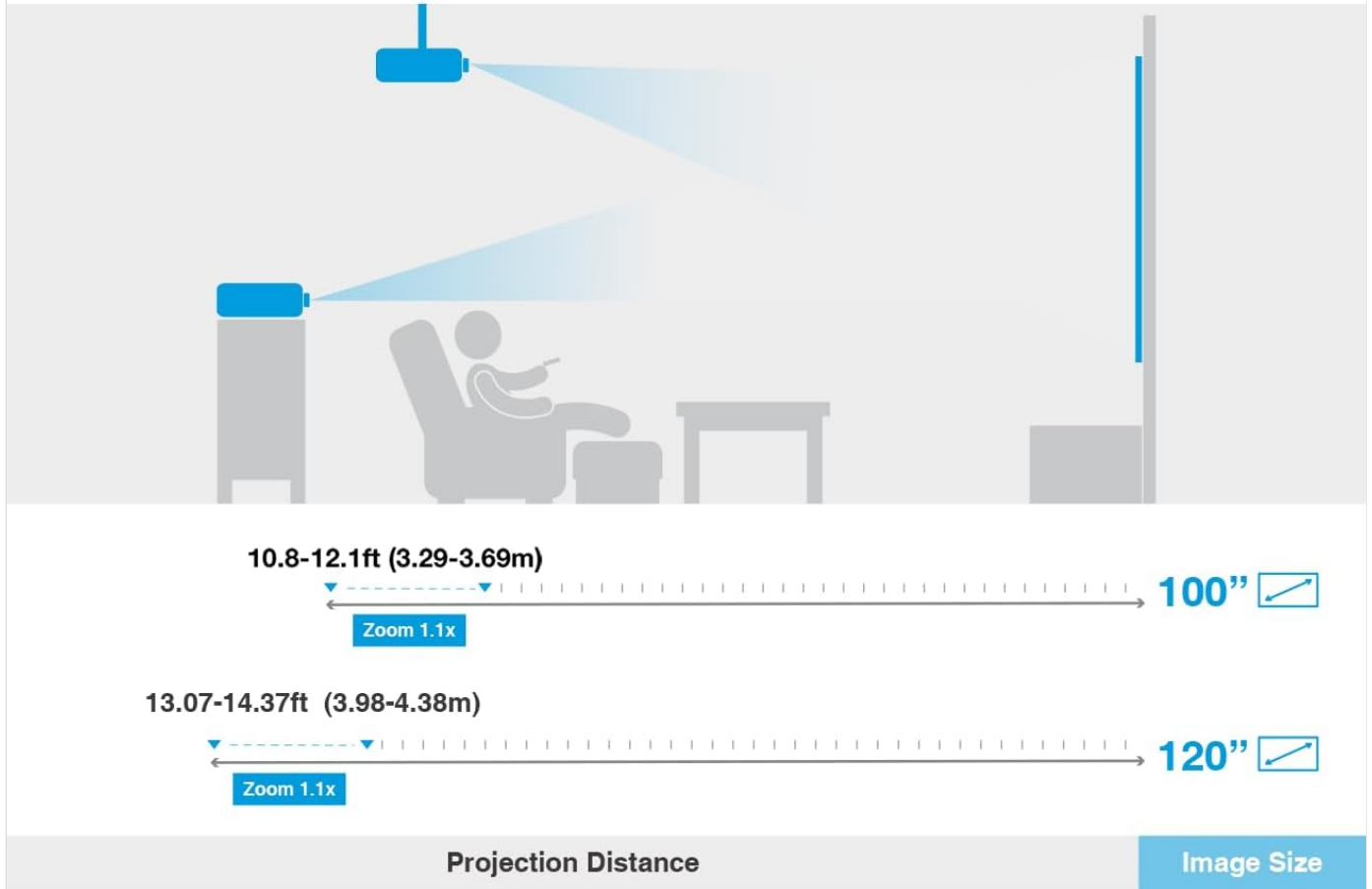


Image 3.1: Standard Throw Projection Distance for Optoma UHD38X, showing recommended distances for 100" and 120" screen sizes.

- For a 100-inch screen, the projector should be placed approximately 10.8-12.1 feet (3.29-3.69m) from the screen.
- For a 120-inch screen, the projector should be placed approximately 13.07-14.37 feet (3.98-4.38m) from the screen.
- Ensure the projector is stable and level to prevent image distortion.

3.2 Connectivity

The UHD38X offers a variety of input and output ports for connecting your devices.

UHD38X Dimensions & Connectivity

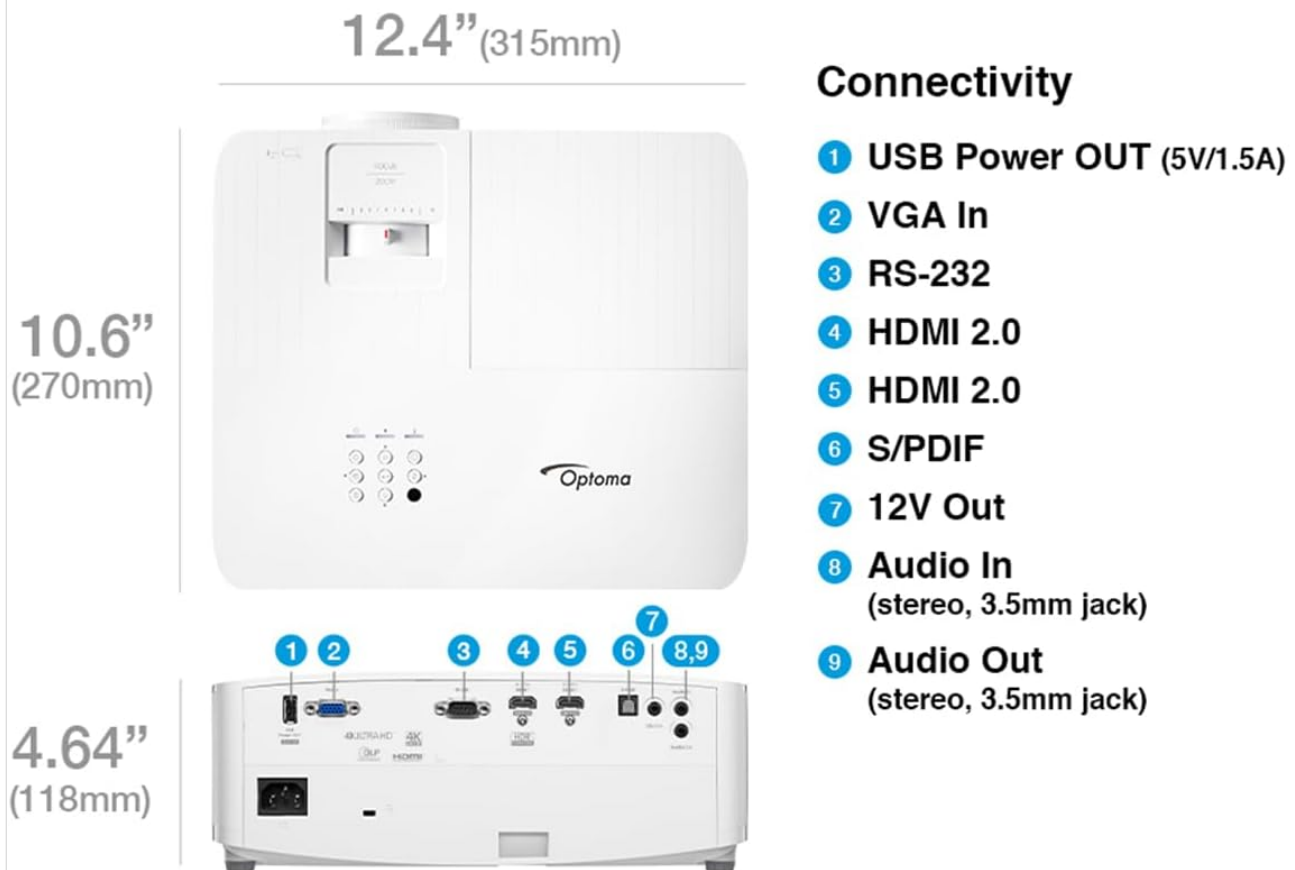


Image 3.2: Rear view of the Optoma UHD38X, illustrating its dimensions and available connectivity ports.

1. **USB Power OUT (5V/1.5A):** For powering external devices like streaming sticks.
2. **VGA In:** For connecting older computers or devices with a VGA output.
3. **RS-232:** For control system integration.
4. **HDMI 2.0 (Input 1):** High-speed digital input for modern devices like Blu-ray players, gaming consoles, and PCs.
5. **HDMI 2.0 (Input 2):** Another high-speed digital input.
6. **S/PDIF:** Digital audio output.
7. **12V Out:** For triggering external devices like motorized screens.
8. **Audio In (stereo, 3.5mm jack):** For analog audio input.
9. **Audio Out (stereo, 3.5mm jack):** For analog audio output to external speakers.

Connect your video source (e.g., gaming console, Blu-ray player, PC) to one of the HDMI 2.0 inputs. Connect the power cable to the projector and a suitable power outlet.

3.3 Power On/Off

- To power on, press the power button on the projector or the remote control. The power LED will illuminate.
- To power off, press the power button again. The projector will enter a cooling down cycle before fully shutting down. Do not unplug the power cable during the cooling cycle.

4. OPERATING THE PROJECTOR

4.1 Basic Operation and Menu Navigation

Use the remote control to navigate the projector's on-screen display (OSD) menu. The menu allows you to adjust various settings, select input sources, and configure advanced features.

- Press the **Menu** button to open the OSD.
- Use the arrow keys (**Up/Down/Left/Right**) to navigate through options.
- Press **Enter/OK** to confirm a selection.
- Press **Menu** again or **Exit** to close the OSD.
- Use the **Source** button to cycle through available input sources (HDMI1, HDMI2, VGA).

4.2 Picture Settings and Features

The UHD38X offers advanced picture settings to optimize your viewing experience.



4K UHD + 4,000 lumens.

Bright, ultra-low lag gaming in True 4K UHD with HDR.

OPTOMA 4K UHD HOME CINEMA

DLP TEXAS INSTRUMENTS 4K ULTRA HD™ 2160P HDR COMPATIBLE 240Hz 4.2ms

True 4K UHD • Bright 4,000 Lumens • 1,000,000:1 contrast ratio
Ultra-fast 240Hz refresh rate & 4.2ms response time at 1080p on PC

The image shows a white Optoma projector with a large lens and a speaker grille. Below the projector are several feature icons: DLP Texas Instruments, 4K Ultra HD, 2160P, HDR Compatible, 240Hz, and 4.2ms response time. The text above the projector highlights '4K UHD + 4,000 lumens' and 'Bright, ultra-low lag gaming in True 4K UHD with HDR.' Below the projector, the model name 'OPTOMA 4K UHD HOME CINEMA' is visible. At the bottom, a list of features is provided: 'True 4K UHD • Bright 4,000 Lumens • 1,000,000:1 contrast ratio' and 'Ultra-fast 240Hz refresh rate & 4.2ms response time at 1080p on PC'.

Image 4.1: Key features of the Optoma UHD38X, highlighting 4K UHD resolution, 4000 lumens brightness, 1,000,000:1 contrast, 240Hz refresh rate, and 4.2ms response time.

- **Brightness & Contrast:** Adjust these settings to suit your viewing environment and content.
- **Color Mode:** Select from various preset modes (e.g., Cinema, Game, Bright) or customize your own.
- **HDR & HLG Compatibility:** The projector supports HDR10 and HLG (Hybrid Log-Gamma) for enhanced contrast and color depth, providing deeper blacks and brighter whites.



HDR10 & HLG Compatibility

Experience deeper black levels, brighter whites and greater color depth with HDR10 & HLG.

Image 4.2: Visual representation of HDR10 and HLG compatibility on the Optoma UHD38X, demonstrating improved dynamic range compared to SDR.

4.3 Gaming Features

The UHD38X is optimized for gaming, offering a competitive edge with its high refresh rate and low input lag.



Lightning-fast 240Hz Refresh Rate

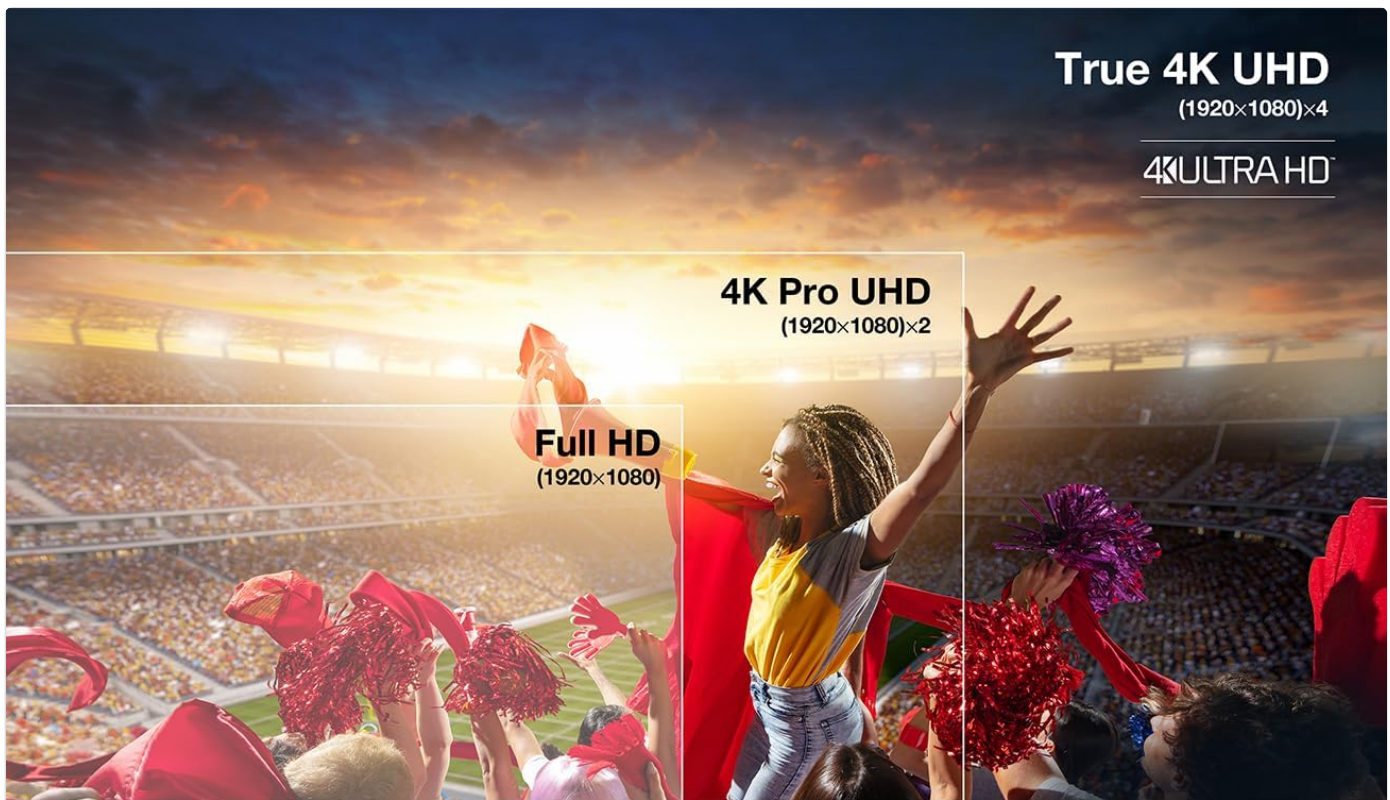
PC gamers can take advantage of the 240Hz refresh rate for blur-free visuals with outstanding smoothness.

Image 4.3: A gamer using the Optoma UHD38X, illustrating the benefit of its 240Hz refresh rate for smooth, blur-free visuals.

- **240Hz Refresh Rate:** Enjoy ultra-smooth motion, especially beneficial for fast-paced PC gaming.
- **4.2ms Input Lag:** Experience minimal delay between your input and the on-screen action, crucial for competitive gaming.
- **Console Gaming:** Supports 1080p 120Hz or 4K UHD 60Hz gameplay with the latest consoles like Xbox Series X|S and PlayStation 5.

4.4 True 4K UHD Display

The UHD38X delivers true 4K UHD resolution, providing incredibly sharp and detailed images.



See It All In True 4K UHD

Optoma True 4K UHD produces 8.3 million discrete pixels*
— double the detail compared to 4K Pro UHD.

*Industry standard by Consumer Technology Association (CTA)[®]

Image 4.4: A visual comparison demonstrating the superior detail of True 4K UHD (8.3 million discrete pixels) compared to 4K Pro UHD and Full HD.

- **8.3 Million Pixels:** The projector utilizes DLP technology to project 8.3 million distinct pixels on screen, delivering a true 4K UHD experience.
- **Crystal Clear Detail:** Enjoy movies, sports, and games with exceptional clarity and sharpness.

5. MAINTENANCE

5.1 Lamp Replacement

The UHD38X uses a lamp as its light source. The lamp has a finite lifespan, and its brightness will gradually decrease over time. When the lamp indicator light illuminates or the image becomes noticeably dim, it's time to replace the lamp.

1. Ensure the projector is powered off and unplugged from the power outlet. Allow it to cool down completely (at least 30 minutes).
2. Locate the lamp cover on the projector (refer to the full user manual for exact location).
3. Unscrew the lamp cover and carefully remove it.
4. Unscrew the old lamp module and gently pull it out.
5. Insert the new lamp module, ensuring it is securely seated.
6. Screw the new lamp module into place and reattach the lamp cover.
7. Plug in the projector and reset the lamp timer in the OSD menu.

Warning: Do not touch the lamp glass directly. Use gloves or a cloth. Dispose of old lamps according to local regulations.

5.2 Cleaning

- **Projector Casing:** Use a soft, dry, lint-free cloth to wipe the exterior. Do not use abrasive cleaners or solvents.
- **Lens:** Gently clean the lens with a lens cleaning cloth and specialized lens cleaning solution. Avoid touching the lens surface with your fingers.
- **Air Vents:** Periodically clean the air vents to ensure proper airflow and prevent overheating. Use a soft brush or compressed air (held upright to prevent propellant discharge).

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your Optoma UHD38X projector.

Problem	Possible Cause	Solution
No image on screen	<ul style="list-style-type: none">• Power cable not connected• Incorrect input source selected• Source device not powered on or outputting signal• Lamp issue	<ul style="list-style-type: none">• Ensure power cable is securely connected.• Press the Source button on the remote to select the correct input.• Check if the source device (e.g., PC, console) is on and sending a signal. Try another HDMI cable.• Check lamp indicator. Replace lamp if necessary.
Image is blurry or out of focus	<ul style="list-style-type: none">• Focus ring not adjusted• Projector too close/far from screen	<ul style="list-style-type: none">• Adjust the focus ring on the projector lens until the image is sharp.• Refer to the projection distance chart (Section 3.1) and adjust projector position.
Remote control not working	<ul style="list-style-type: none">• Batteries are dead or incorrectly inserted• Obstruction between remote and projector sensor	<ul style="list-style-type: none">• Replace batteries and ensure correct polarity.• Ensure direct line of sight to the projector's IR sensor.
Projector overheats and shuts down	<ul style="list-style-type: none">• Blocked air vents• Insufficient ventilation	<ul style="list-style-type: none">• Clean air vents (Section 5.2).• Ensure adequate space around the projector for airflow. Do not place in enclosed spaces.

7. SPECIFICATIONS

Key technical specifications for the Optoma UHD38X projector:

Feature	Detail
Model Number	UHD38x
Display Resolution	3840 x 2160 (4K UHD)
Brightness	4,000 Lumens
Contrast Ratio	1,000,000:1 (Dynamic Black)
Refresh Rate	Up to 240Hz (1080p)

Feature	Detail
Input Lag	4.2ms (1080p 240Hz)
HDR Compatibility	HDR10, HLG
Connectivity Technology	USB, HDMI, VGA, RS-232, S/PDIF, 12V Trigger, Audio In/Out
Product Dimensions (W x D x H)	12.4 x 10.6 x 4.6 inches (315 x 270 x 118 mm)
Item Weight	10.1 pounds (4.58 kg)
Lamp Life	Varies by mode (e.g., Eco, Bright) - refer to full manual for details.
Manufacturer	Optoma Technology Inc
Country of Origin	China

8. WARRANTY AND SUPPORT

Optoma provides a limited warranty for its products. For detailed warranty terms and conditions, please refer to the warranty card included with your product or visit the official Optoma website.

For technical support, product registration, or to download the complete user manual in PDF format, please visit the Optoma support page or contact their customer service. A PDF version of the user manual is available [here](#).