

## Optoma HD28HDR

# Optoma HD28HDR 1080p Home Theater Projector

Model: HD28HDR

## 1. INTRODUCTION

The Optoma HD28HDR is a high-performance 1080p home theater and gaming projector designed to deliver immersive visual experiences. With 3,600 lumens of brightness, 4K UHD and HDR video source support, and a 120Hz refresh rate with 8.4ms response time, it is optimized for both movies and fast-paced gaming. This manual provides essential information for setting up, operating, and maintaining your projector.

## 2. WHAT'S IN THE BOX

- HD28HDR Projector
- AC Power Cord
- Remote Control
- Batteries for Remote
- Quick Start Guide

## 3. PRODUCT OVERVIEW

Large-screen movies and gaming  
with unrivaled image color and clarity.

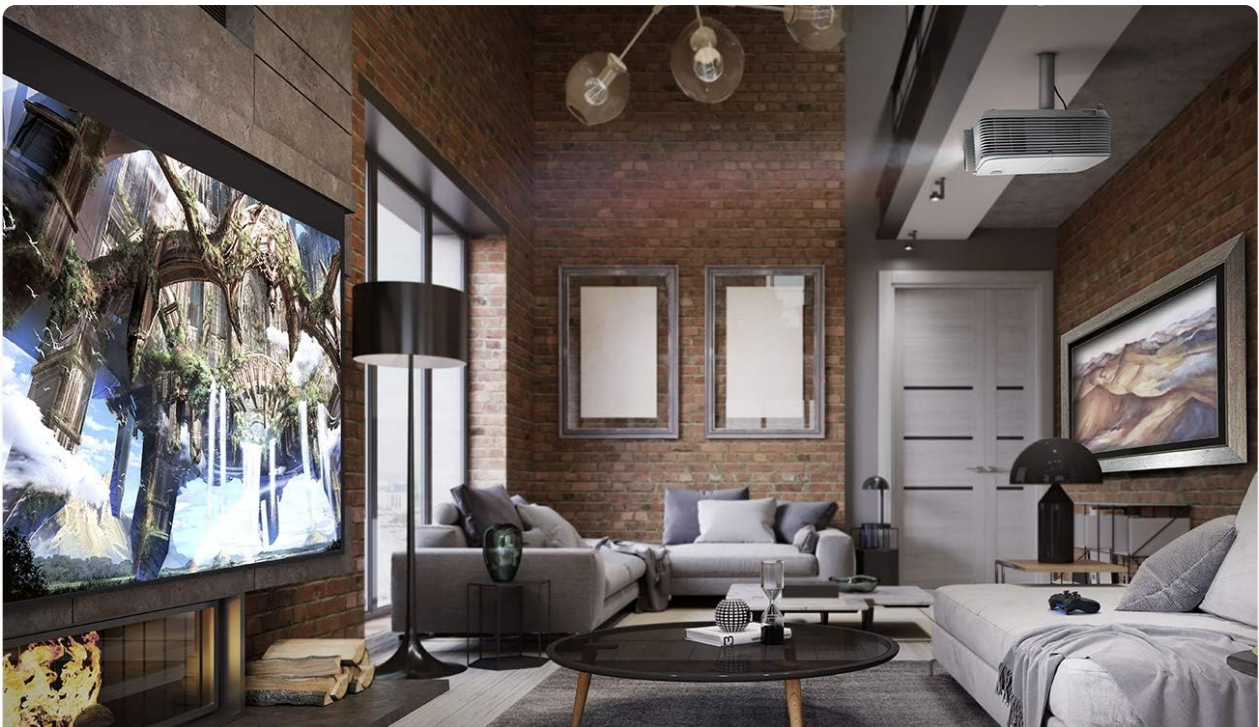


1080P

Full 3D

Bright 3,600 Lumens • The latest display technology  
Dual HDMI 1080p • Supports 4K & 1080p HDR input  
Enhanced 1080p 120Hz gaming with 8.4ms response time

**Image 1:** Front view of the Optoma HD28HDR projector, highlighting its key features like HDR compatibility, 1080p resolution, and Full 3D support. This image showcases the sleek design and the lens of the projector.



**Sharp,** Detailed Graphics

Full HD 1080p resolution & 50:000:1 contrast ratio  
bring movies and gaming to the next level.

**Image 2:** The Optoma HD28HDR projecting a vibrant, detailed image onto a large screen in a modern living room. This illustrates the projector's capability to deliver sharp, detailed graphics with Full HD 1080p resolution and a 50,000:1 contrast ratio.



## 4K & 1080p **HDR10**-Compatible

Experience deeper black levels, brighter whites and greater color depth with 1080p HDR & 4K HDR support.

**Image 3:** A side-by-side comparison demonstrating the enhanced visual quality of 4K and 1080p HDR10-Compatible content. The image on the right shows deeper black levels, brighter whites, and greater color depth, showcasing the projector's HDR capabilities.

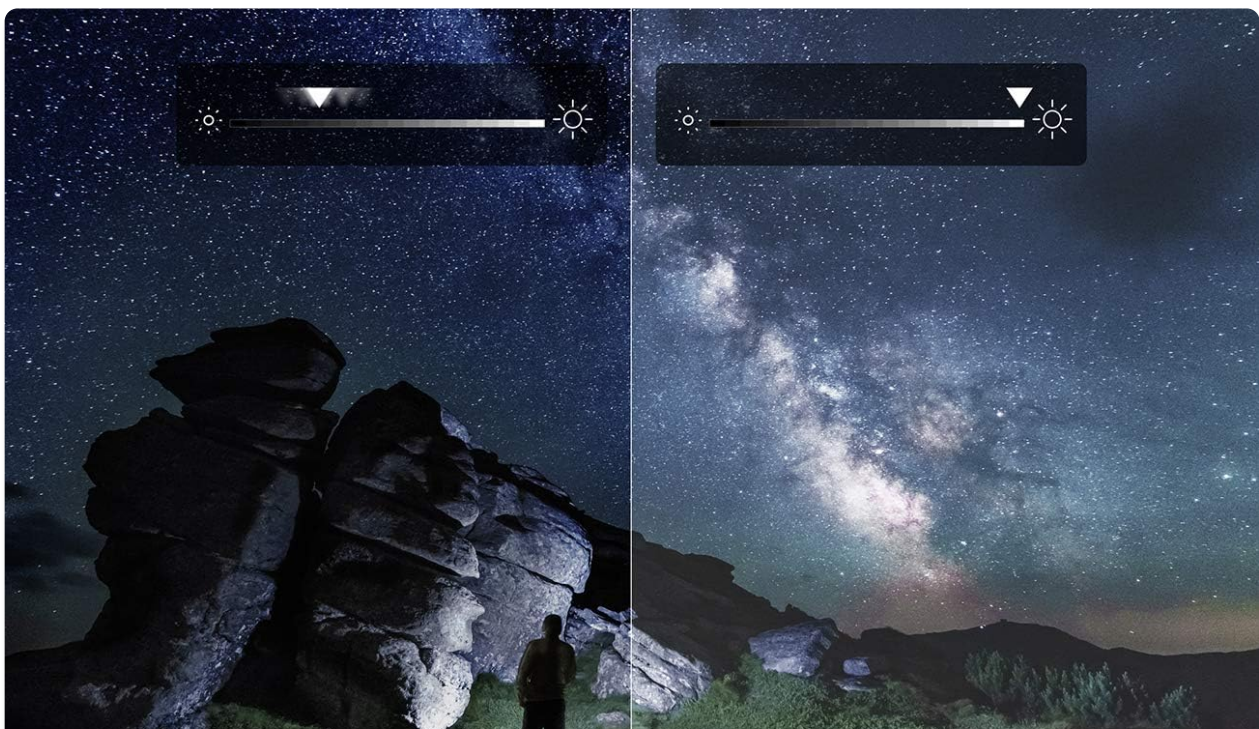




## Ideal for **Gaming**

Enjoy 8.4ms of response time with Enhanced Gaming Mode.  
Game Display Mode boosts shadows & dark scenes.

**Image 4:** A gaming scene projected by the Optoma HD28HDR, highlighting the 'Ideal for Gaming' feature. The image emphasizes the 8.4ms response time with Enhanced Gaming Mode and how Game Display Mode boosts shadows and dark scenes for better visibility.



## More Image **Depth**

Dynamic Black technology enables higher contrast.  
Bright scenes appear clear, dark scenes remain detailed.

**Image 5:** A visual comparison illustrating the 'More Image Depth' feature using Dynamic Black technology. The image on the right shows higher contrast, with clear bright scenes and detailed dark scenes, enhancing overall picture quality.



## Long Lamp Life

Up to 15,000 hours\* of lamp life enables an average of 4 hours of viewing time every day for 10+ years.

\*Dynamic Black Mode

**Image 6:** A close-up view of the Optoma HD28HDR projector's lens, highlighting its 'Long Lamp Life' feature. The text indicates up to 15,000 hours of lamp life, providing many years of use.





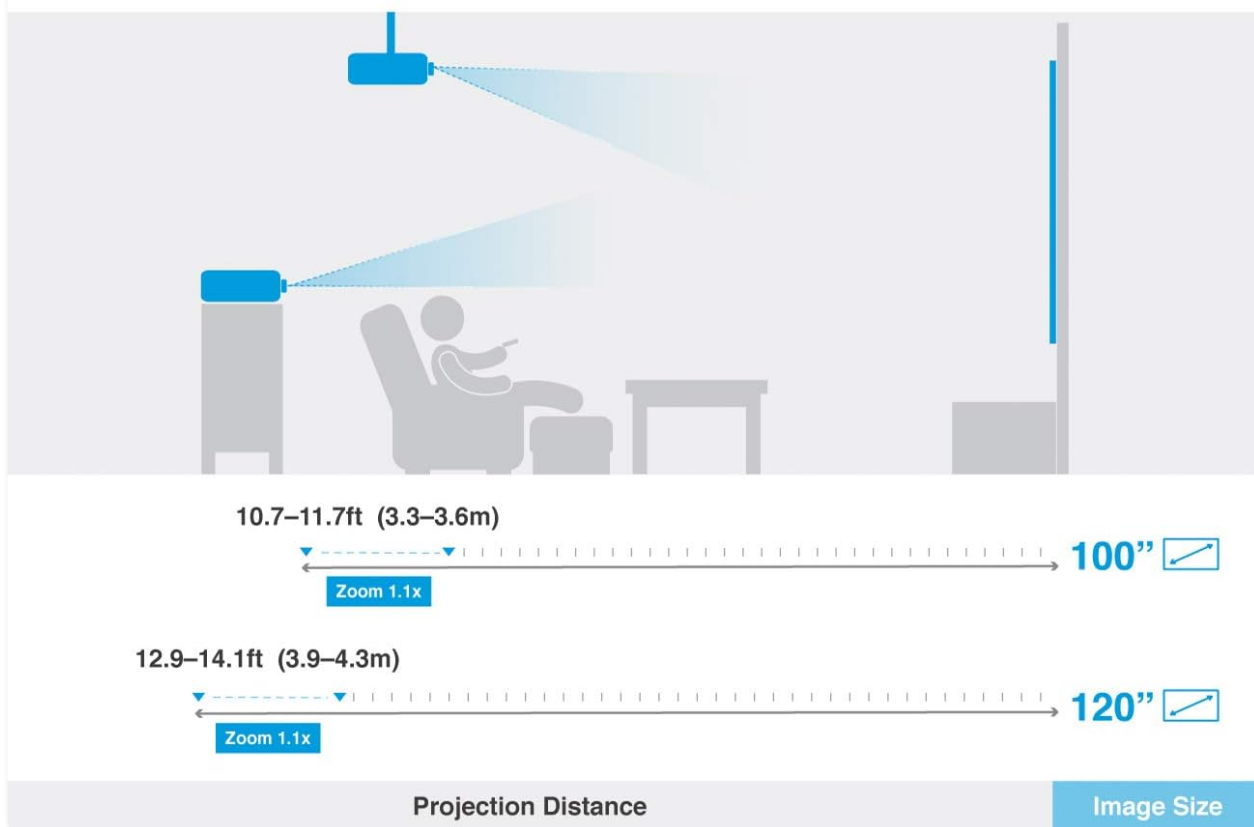
## Super-Bright

Enjoy 3,600 lumens of brightness in any room in your home – living room, home theater, or outdoors.

**Image 7:** The Optoma HD28HDR projecting a vibrant image in a brightly lit room, demonstrating its 'Super-Bright' capability. The image shows that 3,600 lumens of brightness allow for clear viewing in various home environments.

## HD28HDR Standard Throw Projection Distance

Ceiling-mounted or Shelf placement



**Image 8:** A diagram detailing the standard throw projection distances for the Optoma HD28HDR. It shows the approximate

distances required to project 100-inch and 120-inch images, suitable for ceiling-mounted or shelf placement.

# HD28HDR Dimensions & Connectivity



**Image 9:** A detailed diagram showcasing the dimensions and connectivity ports of the Optoma HD28HDR. It labels HDMI V1.4 A, HDMI 2.0, USB-A, and Audio Out (stereo, 3.5mm jack) ports, along with the projector's physical measurements.

## 4. SETUP

### 4.1 Placement

The Optoma HD28HDR supports standard throw projection, allowing flexibility in placement. For a 100-inch image, position the projector approximately 11 feet away from the screen. For a 120-inch image, a distance of about 13 feet is recommended. The projector can project an image up to 302 inches. It is suitable for both ceiling mounting and placement on a shelf or table.

### 4.2 Connectivity

Connect your devices to the projector using the available ports:

- **HDMI 2.0:** For 4K UHD and HDR video sources, ensuring optimal image detail and color clarity.
- **HDMI 1.4 A:** For standard high-definition content.
- **USB Power Out (5V=1.5A):** Ideal for powering streaming dongles like Amazon Fire TV, Google Chromecast, or Apple TV.
- **Audio Out (stereo, 3.5mm jack):** For connecting external audio systems.

### 4.3 Power On/Off

The projector can be controlled via the top panel buttons or the included remote control. HDMI-CEC technology allows for control of the projector and connected devices using a single remote through the HDMI

connection.

## 5. OPERATING INSTRUCTIONS

### 5.1 Basic Controls

The projector features intuitive control buttons on the top panel for essential functions. The lightweight and ergonomic remote control provides full access to all projector features, including picture modes, brightness settings, and input selection.

- **Zoom:** Use the zoom switch to adjust the screen size without physically moving the projector.
- **Focus:** Rotate the focus ring around the lens to sharpen the image for crystal-clear detail.
- **Dynamic Black:** This technology provides more depth to the image by smoothing lamp output to create high contrast, making bright scenes clear and dark scenes detailed.

### 5.3 Picture Modes

The 6-segment color wheel (RYGCWB) produces accurate color with sRGB & REC.709 color profiles. HDR10 technology enhances the viewing experience with brighter whites and deeper black levels.

### 5.4 Gaming Mode

For an optimal gaming experience, utilize the Enhanced Gaming Mode which delivers a lightning-fast response time of 8.4ms with a 120Hz refresh rate. The Game Display Mode boosts shadows and dark scenes for greater visibility of impending obstacles.

### 5.5 3D Content

The HD28HDR displays true 3D content from almost any 3D source, including 3D Blu-ray Disc players, 3D broadcasting, and the latest-generation game consoles. Support for a 120Hz rapid-refresh rate provides ultra-smooth, flicker-free images. (3D glasses are required and sold separately).

## 6. MAINTENANCE

### 6.1 Lamp Life

The projector offers a long lamp life of up to 15,000 hours when using Dynamic mode, providing many years of use with minimal maintenance.

## 7. TROUBLESHOOTING

If you encounter any issues, please refer to the quick start guide included in the box. Ensure all cables are securely connected and the correct input source is selected. For further assistance, contact Optoma customer support.

## 8. SPECIFICATIONS

Feature	Detail
Brand	Optoma
Model Number	HD28HDR



Display Resolution	1920 x 1080 (1080p)
Brightness	3600 Lumens
Connectivity Technology	HDMI
Item Weight	8.54 pounds
Product Dimensions	9.5 x 12.4 x 4.3 inches
Special Feature	Portable
Recommended Uses	Gaming
Noise Level	26dB
Operating Temperature	41–104°F (5–40°C), 85% max humidity
Lamp Life	Up to 15,000 hours (Dynamic mode)

## 9. WARRANTY & SUPPORT

For warranty information and customer support, please refer to the documentation included with your product or visit the official Optoma website. Protection plans may also be available for extended coverage.

## 10. OFFICIAL PRODUCT VIDEOS

### Optoma Home Projection Technology

**Video Description:** This video from OPTOMA TECHNOLOGY showcases the advanced home projection technology, highlighting features that enhance the viewing experience for various content types. It provides an overview of how Optoma projectors integrate into a home entertainment setup.

### Optoma Award-Winning Projectors

**Video Description:** This video from OPTOMA TECHNOLOGY features their range of award-winning projectors, emphasizing their quality and performance. It briefly touches upon the benefits and recognition received by Optoma products in the projection industry.