# Incredible HDR Home Entertainment
## HD28HDR

**Optoma**

## Large-screen movies and gaming with outstanding color and contrast



- **Bright 3,600 lumens with 50,000:1 contrast ratio**

- **8.4ms** Enhanced Gaming Mode with up to 8.4ms input response time

- **Game Display Mode enhances shadows and dark scenes for better playability**

- **CEC** HDMI-Link support simplifies control of connected HDMI devices and video sources

- **2.0** HDMI 2.0 with HDCP 2.2 connectivity for 4K UHD and HDR video sources

- **120Hz** Lightning-fast 120 Hz refresh rate support for blur-free gaming

**DLP** TEXAS INSTRUMENTS | **BrilliantColor** With Multi-Color Projection For Rich Vibrant Colors DLP | **HDMI** HIGH DEFINITION MULTIMEDIA INTERFACE | **WIDESCREEN 16:9 ENHANCED** | **1080P** | **Full 3D** | **RoHS COMPLIANT**



Step up to huge-screen gaming with the 3,600 lumens Optoma HD28HDR 1080p home theater and gaming projector. HDMI 2.0 connectivity supports 4K UHD and HDR video sources for unrivaled image detail and color clarity up to 301-inches for immersive movie and gaming experiences.

Enhanced Gaming Mode combined with a 120Hz refresh rate delivers lightning-fast input response times of 8.4ms, perfect for fast-paced and competitive console or PC gaming. Game Display Mode provides a visual advantage by boosting shadows and dark scenes for greater visibility of impending obstacles.

HDMI-Link technology enables control of the projector and connected devices using a single remote, all via the HDMI connection. The 15,000-hour lamp life delivers many years of use with minimal maintenance when using Dynamic mode.

## CONNECTIVITY (May require optional accessories)

Computers | Smart Phones | Tablets | 3D Blu-ray/DVD Players | Camcorders | Apple TV® | Chromecast™
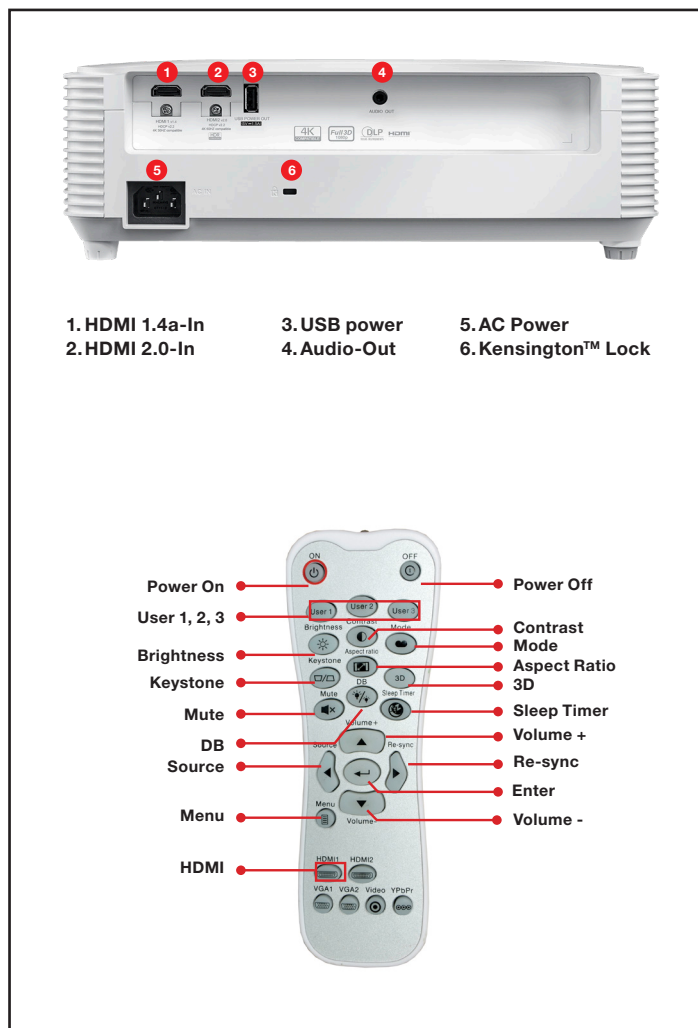
## OPTICAL/TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Display Technology** | Texas Instruments 0.47" DMD |
| **Color Wheel** | RYGCWB |
| **Native Resolution** | 1080p (1920 x 1080) |
| **Maximum Resolution** | **HDMI 2.0:** 4K UHD (3840 x 2160) (60 Hz) <br> **HDMI 1.4a:** 4K UHD (3840 x 2160) (30 Hz) |
| **Brightness** | 3,600 ANSI lumens |
| **Contrast Ratio** | 50,000:1 |
| **Displayable Colors** | 1.07 billion |
| **Lamp Life and Type*** | 15,000/10,000/4,000 (Dynamic/ECO/Bright) - 240W |
| **Projection Method** | Front, rear, ceiling mount, table top |
| **Keystone Correction** | ±40° vertical |
| **Uniformity** | 80% |
| **Offset** | 116%±5% |
| **Aspect Ratio** | 16:9 (native), 4:3, 16:10 and LBX compatible |
| **Throw Ratio** | 1.47 - 1.62:1 |
| **Projection Distance** | 3.2' - 35.37" (no zoom) |
| **Image Size** | 28" - 301" |
| **Projection Lens** | F=2.1 ~ 2.31, f=15.59 ~ 17.14mm |
| **Optical Zoom** | 1.1x |
| **Digital Zoom** | 0.8 - 2.0 |
| **Audio** | 3W |
| **Noise Level** | 26dB |
| **Remote Control** | Full size remote |
| **Operating Temperature** | 41–104°F (5–40°C), 85% max humidity |
| **Power Supply** | AC input 100 - 240V, 50 - 60 Hz, auto-switching |
| **Power Consumption** | 295W typical (Bright), 325W max (Bright), <br> 215W typical (Eco), 240W max (Eco) |
| **High Altitude** | Operating temp @ sea level up to 10000 feet = 23F (max); must manually switch to high altitude mode @ 5000 feet & above (using OSD) |

## COMPATIBILITY SPECIFICATIONS

| | |
|---|---|
| **Computer Compatibility** | FHD, HD, WXGA, UXGA, SXGA, XGA, SVGA, VGA, Mac |
| **Video Input Compatibility** | PAL (B, D, G, H, I, M, N, 576i/p), NTSC (M, 4.43/3.58 MHz, 480i/p), SECAM (B, D, G, K, K1, L) HD (1080i, 720p), 4K UHD |
| **3D Compatibility†** | Supports all HDMI 1.4a mandatory 3D formats (Frame pack, side-by-side, top-bottom) and up converts frame rate from 60Hz to 120Hz or 24Hz to 144Hz (i.e. 60 or 72 frames per eye). 3D glasses are needed and are sold separately. Refer to user manual for details. |
| **Vertical Scan Rate** | 15.375 - 91.146KHz |
| **Horizontal Scan Rate** | 25 - 85Hz (120Hz for 3D) |
| **User Controls** | Complete on-screen menu adjustment in 27 languages |
| **I/O Connection Ports** | HDMI 2.0 (HDCP 2.2), HDMI (1.4a), audio out (3.5mm), USB (1.5a / firmware update) |
| **Loop Through (Audio)** | Yes |

## PHYSICAL SPECIFICATIONS

| | |
|---|---|
| **Security** | Security bar, Kensington lock, password protection |
| **Weight** | 6.2 lbs. |
| **Dimensions (W x H x D)** | 12.4" x 4.3" x 9.5" |



1. HDMI 1.4a-In  3. USB power  5. AC Power
2. HDMI 2.0-In  4. Audio-Out  6. Kensington™ Lock



**Warranty**

1-year parts and labor limited warranty on the projector, 90 days lamp warranty

**What's in the Box**

HD28HDR projector, AC power cord, remote control, batteries for remote, quick start guide

**Optional Accessories**

Universal ceiling mount, lamp, remote

**Accessory Part Numbers**

Lamp: BL-FU240H
Remote: BR-3003B
Ceiling mount: OCM818B-RU
Ceiling mount (with extensional pole): OCM815B

**UPC** 796435 81 354 3

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