Incredible HDR Home Entertainment
HD28HDR

Large-screen movies and gaming with outstanding color and contrast

- Bright 3,600 lumens with 50,000:1 contrast ratio
- Enhanced Gaming Mode with up to 8.4ms input response time
- Game Display Mode enhances shadows and dark scenes for better playability
- HDMI-Link support simplifies control of connected HDMI devices and video sources
- HDMI 2.0 with HDCP 2.2 connectivity for 4K UHD and HDR video sources
- Lightning-fast 120 Hz refresh rate support for blur-free gaming

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.
OPTICAL/TECHNICAL SPECIFICATIONS

Display Technology
Texas Instruments 0.47" DMD

Color Wheel
RYGCBW

Native Resolution
1080p (1920 x 1080)

Maximum Resolution
HDMI 2.0: 4K UHD (3840 x 2160) (60 Hz)
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

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
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),
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”