

# 1080p Short Throw Laser Projector

GT1090HDR



Exceptional, huge-screen image quality from several feet away



- 4,200 ANSI lumens with 300,000:1 contrast ratio
- 4K UHD input with HDMI 2.0 (HDCP 2.2)
- 0.50:1 short throw ratio
- HDR10 and HLG compatible
- DuraCore maintenance-free laser light source up to 30,000 hours
- Auto keystone
- Quiet operation



Bring the cinematic experience to space-constrained environments with the incredible 4,200 lumens, 1080p Optoma GT1090HDR laser short throw home theater projector. A short 0.50:1 throw ratio projects incredible 100-inch images from only several feet away.

A DuraCore Laser light source eliminates lamp and filter replacements for up to 30,000 hours of maintenance-free operation with stunning color and image quality throughout the life of the projector. The compact size and low weight make mounting a breeze while its quiet operation ensures the GT1090HDR is seen, not heard.

Auto keystone and four corner correction provide flexible image adjustments for easy installation. Blu-ray 3D support brings the immersive 3D movie experience home when paired with optional DLP-Link 3D glasses.

## CONNECTIVITY (May require optional accessories)



Computers



Smart Phones



Tablets



3D Blu-ray/DVD Players



Camcorders



Apple TV®



Chromecast™

## OPTICAL/TECHNICAL SPECIFICATIONS

|   |   |
|---|---|
| <b>Display Technology</b>               | Texas Instruments™ 0.65" 1080p DMD  |
| <b>Color Wheel</b>                      | 4 segment RGBY  |
| <b>Native Resolution</b>                | 1080p   |
| <b>Maximum Resolution</b>               | <b>HDMI 2.0:</b> 4K UHD (3840 x 2160 @ 60Hz)<br>4K (4096 x 2160, 60Hz)<br><b>HDMI 1.4:</b> WUXGA (1920 x 1200)  |
| <b>Brightness</b>                       | 4,200 ANSI lumens   |
| <b>Contrast Ratio</b>                   | 300,000:1 (Extreme Black enabled) 1,800:1 full on/full off  |
| <b>Displayable Colors</b>               | 1.07 billion  |
| <b>Lamp Life*</b>                       | Up to 30,000 hrs (Eco), 20,000 hours (Normal)   |
| <b>Light Source Type*</b>               | DuraCore laser  |
| <b>Projection Method</b>                | Front, rear, ceiling mount, table top   |
| <b>Keystone Correction</b>              | Auto keystone, ±30° horizontal and vertical   |
| <b>Geometry</b>                         | Horizontal & vertical keystone  |
| <b>Uniformity</b>                       | 75%   |
| <b>Offset</b>                           | 115%  |
| <b>Aspect Ratio</b>                     | 16:9 (native), 4:3, LBX and auto compatible   |
| <b>Throw Ratio</b>                      | 0.5:1   |
| <b>Projection Distance</b>              | 3' - 11'  |
| <b>Image Size</b>                       | 36.43" – 301.4"   |
| <b>Projection Lens</b>                  | f=7.42mm  |
| <b>Optical Zoom</b>                     | NA  |
| <b>Digital Zoom</b>                     | 0.8 - 2.0x  |
| <b>Audio</b>                            | 2 x 10W (stereo)  |
| <b>Noise Level</b>                      | 32db  |
| <b>Remote Control</b>                   | Full size remote with laser pointer   |
| <b>360° and Portrait mode operation</b> | Yes   |
| <b>Operating Temperature</b>            | 41–104°F (5–40°C), 85% max humidity   |
| <b>Power Supply</b>                     | AC input 100–240V, 50–60Hz, auto-switching  |
| <b>Power Consumption</b>                | Bright: 277W max<br>Eco: 212W max, 143W typical   |
| <b>High Altitude</b>                    | Operating temperature at sea level up to 10,000 feet = 104° F (max); Must manually switch to high altitude mode from 5,000 feet and above (using OSD menu) to maintain optimal functionality. |

## COMPATIBILITY SPECIFICATIONS

|                                  |  |
|----------------------------------|--|
| <b>Computer Compatibility</b>    | VGA, SVGA, HDTV(720p), WXGA, WXGA+, SXGA, SXGA+, UXGA, HDTV(1080p), WUXGA, 4K, 4K UHD  |
| <b>Video Input Compatibility</b> | PAL, SECAM, 576i/p, NTSC, 480i/p, HDTV 720p/1080i/1080p 4K UHD 2160p (24/50/60 Hz), 4K   |
| <b>3D Compatibility†</b>         | 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 sold separately. Refer to user manual for details. |
| <b>Vertical Scan Rate</b>        | 24 ~ 85 Hz (120 Hz for 1080p 3D feature)   |
| <b>Horizontal Scan Rate</b>      | 15.375 ~ 91.146 KHz  |
| <b>User Controls</b>             | Graphic user interface and on-screen menu in 27 languages  |
| <b>I/O Connection Ports</b>      | 1x HDMI 2.0 (HDCP 2.2, MHL), 1x HDMI 1.4, 1x VGA, 1x composite, 2x audio in (3.5mm), 1x mic in, 1x USB-A (power, 5V, 1.5A), 1x VGA out (VGA 1 only), 1x audio out, 1x 12v trigger, 1x 3D sync, 1x mini USB   |
| <b>Control</b>                   | 1x RJ-45, 1x RS-232C   |

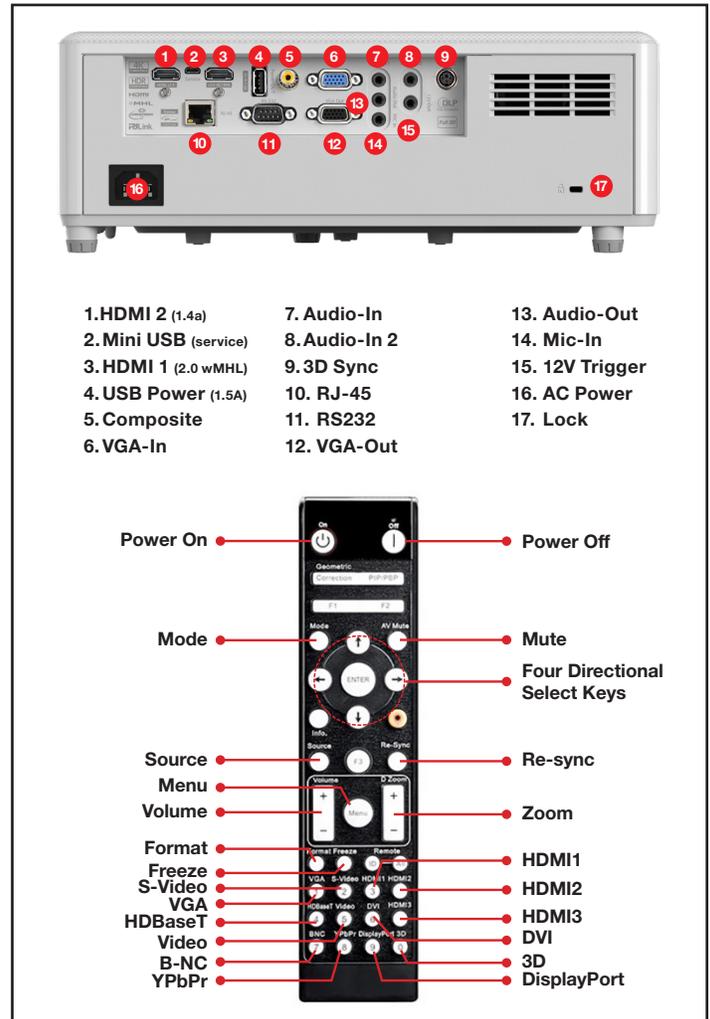
## PHYSICAL SPECIFICATIONS

|                               |                                       |
|-------------------------------|---------------------------------------|
| <b>Security</b>               | Kensington® lock port, password (OSD) |
| <b>Weight</b>                 | 10 lbs                                |
| <b>Dimensions (W x H x D)</b> | 13.26" x 4.8" x 10.5"                 |

\*Light source life is dependent on brightness mode, display mode, usage, environmental conditions and more. Light source brightness can decrease over time.

†Watching 3D projection while wearing 3D glasses for an extended period of time may cause headaches or fatigue. If you experience a headache, fatigue or dizziness, stop viewing the 3D projection and rest.

Portrait orientation must follow the recommended positions. Please consult the user manual for further information.



### Warranty

1-year parts and labor limited warranty on the projector. 5-year or 12,000 hour light source warranty (whichever comes first)

### What's in the Box

GT1090HDR, AC power cable, remote control, batteries, quick start user manual

### Accessories

Universal Ceiling mount: OCM815W  
Universal Ceiling mount: OCM818W-RU  
Universal Ceiling mount: BM-5001U  
Remote (replacement): BR-3075W  
Remote (optional/backlit): BR-3003B

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