

NEW

HL31LV

Full HD 1080p 4LED Projector

Enjoy big-screen movies, streaming content, live sports, gaming and presentations with vibrant Full HD image quality and long-life 4LED performance. The HL31LV delivers up to 3,500 lumens of brightness, responsive gaming performance, and up to 30,000 hours of maintenance-free operation- made for the ideal projector for homes, offices and shared spaces.



Full HD 1080p

3,500 Lumens
High Brightness

30,000 Hours

HDR
Compatible

4LED Technology

8.4ms Input Lag

BRIGHT, COLORFUL. READY FOR EVERYDAY VIEWING.

Key Benefits



3,500 Lumens High Brightness*
Delivers clear, vibrant images for entertainment and meeting spaces.



Advanced 4LED Technology
Produces rich, accurate colors while delivering consistent image quality and improved energy efficiency.



Full HD 1080p Resolution
Sharp and detailed images perfect for movies, sports, presentations and streaming.

Long-lasting & Reliable



Durable and Reliable
Up to 30,000 hours of long-life performance.



Flexible Installation
360° operation, 1.1x zoom, keystone correction and 24/7 operation for versatile placement and use.



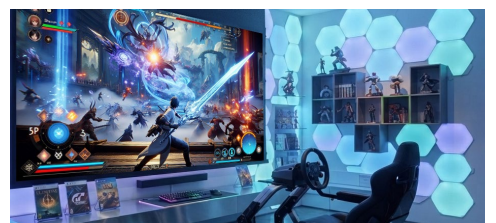
Low Input Lag
Input lag as low as 8.4ms at 1080p/120Hz for responsive gaming and interactive content.

Versatile Application

Home Entertainment



Gaming



Presentations



*Brightness measured in accordance with ISO 21118



HL31LV

Technical Specifications

Vibrant color. Advanced 4LED technology. Everything needed for larger-than-life entertainment, competitive gaming, and versatile presentation capabilities.



DISPLAY / IMAGE	
Display technology	DLP™
Resolution	Full HD 1080p (1920 x 1080)
Brightness	3,500 lumens
Contrast ratio	300,000:1
Native aspect ratio	16:9 (Compatible 4:3,16:10)
Displayable Colors	1,073.4 Million
Keystone correction	H: ±30°, V: ±30°
Horizontal scan rate	15–135 KHz
Vertical scan rate	24–120 Hz
Uniformity	85%
Screen size	30" – 300"

LIGHT SOURCE	
Light source type	4LED
Light source life	30,000 hours (Eco mode)

OPTICAL / INSTALLATION	
Throw ratio	1.49 ~ 1.64
Projection distance	1.96m ~ 4.89m
Zoom type	Manual; 1.1x
Focal length	22mm ~ 24.1mm
Projection	360°
Native offset	102.5% ±30%

CONNECTIVITY	
Inputs	2 x HDMI 2.0, 1 x VGA, 1 x Audio In
Outputs	1 x USB-A power 2A, 1 x Audio 3.5mm, 1 x VGA
Control	1 x RS232, 1 x LAN

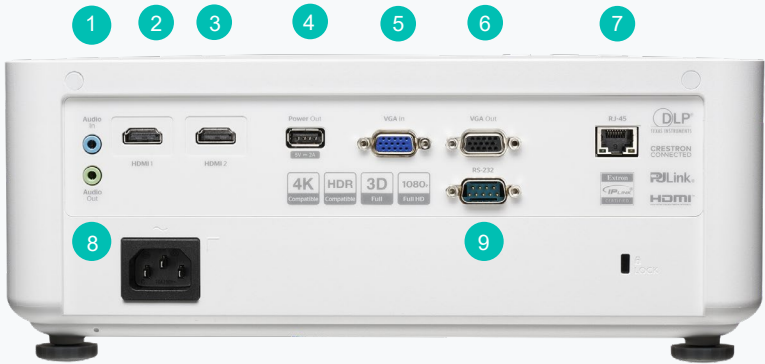
GENERAL / PERFORMANCE	
Noise level (min)	29 dB (Eco mode)
Noise level (max)	35 dB (Bright mode)
PC compatibility	VGA,SVGA,XGA,720p,WXGA,SXGA,SXGA+,UXGA,1080p,WUXGA
2D compatibility	NTSC,PAL,SECAM,SDTV,HDTV,UHD
3D compatibility	Auto, SBS, Top and Bottom, Frame Sequential, Frame Packing
3D	Full 3D
Security	Kensington Lock, password protected interface
OSD languages	27 languages
Operating conditions	0–40°C; max altitude 10,000 ft.; Max humidity 80% RH, non-condensing
24/7 operation	Yes
Speaker	1 × 10W
Input Lag	33.7ms (4K/60Hz) 16.7ms (1080p/60Hz) 8.4ms (1080p/120Hz)
In the box	AC power cord, remote control, basic user manual, 2 x AAA Batteries
Warranty	5 Years or 12,000H (whichever comes first)
UPC	796435 81 586 8

POWER	
Power supply	External, 100V ~ 240V, 50-60Hz
Standby	<0.5W
Power Consumption (Eco mode)	130W@100VAC 124W@240VAC
Power Consumption (Bright mode)	226W @100VAC 212W @240VAC

WEIGHT / SIZE	
Dimensions	12.09" x 8.98" x 4.50"
Gross weight	10.8 lbs
Net weight	6.8 lbs



REAR I/O / PRODUCT VIEW | CONNECTIVITY



1. Audio In
2. HDMI 1 In
3. HDMI 2 In
4. USB-A 2A
5. VGA In
6. VGA Out
7. RJ-45
8. Audio Out
9. RS232

PRODUCT DIMENSIONS



Optoma
NO. 1 DLP® LASER BRAND IN AMERICAS*
*Data source: PMA Research Worldwide Projector Census, Q3 2025

Optoma is a visual solutions provider that has delivered stunning experiences to millions of people since 2000. For the last two decades, we have grown our business to become one of the world's leading large-display brands. We have demonstrated our capabilities as a first-mover, innovator, and market leader and firmly established our position as the world's leading 4K UHD projector and DLP® brand.

Copyright © Optoma 2026, Optoma and its logo is a registered trademark of Optoma Corporation and its affiliates ("Optoma"). All other product names and company names used herein are for identification purposes only and may be trademarks or registered trademarks of their respective owners other than Optoma, and Optoma disclaims any and all rights in these marks. All specifications are subject to change without notice. All images are for representation purposes only and may be simulated or AI generated content. DLP is a registered trademark of Texas Instruments.

Optoma | Experience more

