Optoma

Home Cinema UHR90DV
4K UHD Triple Laser RGB Projector

Transform your home cinema with 4K UHD, 5,000-lumen triple laser RGB projector, featuring Dolby Vision, IMAX Enhanced, Filmmaker Mode, HDR10+, and PureEngine™ Ultra. Experience unmatched brightness, contrast, color, and low input lag for ultimate experiences like never before.

● 4K UHD home cinema projector
● Triple Laser RGB light source for vibrant, life-like visuals
● 96% BT2020 wide color gamut
● Featuring Dolby Vision and HDR10+
● IMAX Enhanced, Filmmaker mode certified
● PureEngine™ Ultra - Optoma's next gen visual enhancement technology
● 5,000 Lumens high brightness, perfect for aimbient light environments
● Dolby Atmos passthrough and eARC for enhanced audio-visual experiences

Specification

Display/Image

Technology	DLP™
Resolution	4K UHD (3840x2160)
Brightness	5,000 lumens
Contrast ratio	4,500,000:1
Native aspect ratio	16:9
Aspect ratio - compatible	4:3, 16:9
Keystone correction - horizontal	+/-30°
Keystone correction - vertical	+/-30°
Horizontal scan rate	15~91 KHz
Vertical scan rate	24~ 85 Hz
Uniformity	95%
Screen size	80" ~ 300"
Color gamut	96% BT2020 ; 98% DCI-P3
Color bit depth	up to 12 bit
Picture Mode	Vivid, HDR, HLG, Cinema, Game, Reference, WCG, Bright, Dolby Vision (bright, dark, vivid, cinema), HDR10+, Golf Sim., AI-PQ, 3D, Filmmaker mode, IMAX Enhanced, ISF

Light source

Light source type	Triple Laser (RGB)
Light source life	30,000 hours (Eco mode)

Optical

Throw ratio	1.25:1 ~ 2.0:1
Projection distance	2.20 m ~ 13.06 m
Zoom	1.6
Zoom type	Motorized
Focal length	18.72 mm ~ 29.59 mm
Native offset	100%
Lens shift	Vertical +/-55% ; Horizontal +/-25%

Connectivity

Connections- Inputs	HDMI 2.1 x1, HDMI 2.0 x2 (one supports ARC/eARC out)
Connections - Outputs	USB-A power 1.5A x1, USB-A power 0.9A x2, 3D sync x1, Audio 3.5 mm x1, S/PDIF x1
Connections - Control	RJ45 x1,RS232 x1, 12V trigger x2

Specification

General

Noise level (min)	25 dB
Noise level (max)	28 dB
3D	Full 3D
Security	Security bar, Kensington Lock, Password protected interface
OSD / display languages	27 languages: Arabic, Czech, Danish, Dutch, English, Farsi, Finnish, French, German, Greek, Hungarian, Indonesian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Romanian, Russian, Simplified Chinese, Spanish, Swedish, Thai, Traditional Chinese, Turkish, Vietnamese
24/7 operation	Yes
360° operation	Yes
Operating conditions	Max Temperature(operating): 0 ~ 40°C; Tolerance +/- 2°C, Max Altitude(operating): 10,000 ft., for 0°C~30°C, Max humidity(operating): 80% RH, non-condensing
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Remote control	Backlit remote control
Speaker count & Watts per speaker	N/A
Input lag	≤8.5ms (1080P/240Hz) ≤20ms (4K/60Hz)
In the box	AC power cord Remote control 2 x AAA batteries Quick start user manual
eARC support audio format	LPCM, Dolby Digital, Dolby Digital Plus, Dolby TrueHD, DTS-M6. Dolby Atmos pass through

Networking

LAN control	Yes

Power

Power supply	AC 100 ~ 240 V, 50 ~ 60 Hz
Power consumption (standby)	≤0.5 W
Power consumption (eco mode)	160W (typical), 190W (max)
Power consumption (bright mode)	295W (typical), 345W(max)

Specification

Weight and dimensions

Dimensions (W x D x H)	486 mm x 432.5 mm x 185.5 mm / 19.1" x 17.0" x 7.3"
Gross weight	14.8 Kg / 32.6 lbs
Net weight	11.5 Kg / 25.3 lbs