

# H190X

## Bright 720p Projector



### Features

- Luminous HD compatible projection with 3,900 lumens and 30,000:1 contrast ratio
- HDMI, VGA and composite connectivity
- Up to 15,000-hour lamp life
- Vertical keystone for easy positioning
- Integrated 10-watt speaker



### Big screen HD compatible entertainment projector

Project stunning images at any time of the day with the bright, 3,900 lumens, HD compatible, Optoma H190X. The compact form factor, 1.55 - 1.73:1 throw ratio, 1.1x zoom and 30,000:1 contrast ratio provides flexible setup for easy enjoyment of live sports, gaming, and movies at image sizes up to 300 inches.

Robust input options, including HDMI, VGA and composite enable connectivity to the latest and legacy video sources for gaming and media consumption. A 15,000-hour lamp life enables many years of use with minimal maintenance for lower total cost of ownership.



# H190X



## TECHNICAL SPECIFICATIONS

<b>Aspect Ratio</b>	16:9 (Video Source), 16:10 (PC Source), 4:3
<b>Audio</b>	10W speaker
<b>Brightness</b>	3,900 ANSI lumens
<b>Connections</b>	1 x HDMI v1.4a, 1 x VGA, 1 x composite, 1 x audio-in, 1 x USB-A (5v / 1.0 amp), 1 x VGA, 1 x audio-out, 1 x RS232
<b>Contrast Ratio</b>	30,000:1
<b>Display Technology</b>	Texas Instruments 0.65" WXGA DMD
<b>Displayable Colors</b>	1.07 billion
<b>Keystone Correction</b>	± 40° Vertical
<b>Light Source Type</b>	203W
<b>Light Source Life</b>	15,000/12,000/10,000/6,000 (Eco+/Dynamic/Eco/Bright)
<b>Lens Shift</b>	None
<b>Maximum Resolution</b>	WUXGA (1920 x 1200)
<b>Native Resolution</b>	720p (WXGA)
<b>Noise Level</b>	27dB
<b>Offset</b>	115% ± 5%
<b>On-Screen Display</b>	Complete on-screen menu adjustments in 26 languages
<b>Operating Temperature</b>	Sea Level to 10,000 feet (@73°F); must manually switch to high-altitude mode at 5,000 feet & above
<b>Power Consumption</b>	200W Normal (Bright), 160W Standard (ECO), ≥58W Dynamic Mode, 203W (max)
<b>Power Supply</b>	AC input 100-240V, 50-60Hz, auto-switching
<b>Projection Distance</b>	3.9' - 45.9' (without zoom)
<b>Projection Lens</b>	F=2.41~2.53, F=21.85~24 mm
<b>Projection Screen Size</b>	29.7" - 300.7"
<b>Remote Control</b>	IR remote control
<b>Resolution</b>	720p (Video Source), WXGA (PC Source)
<b>Throw Ratio</b>	1.55 - 1.73:1

<b>Uniformity</b>	75%
<b>Zoom Type</b>	1.1x Manual

## COMPATIBILITY SPECIFICATIONS

<b>3D Compatibility</b>	Side-by-Side: 1080i50 / 60, 720p50 / 60, Frame-pack: 1080p24, 720p50 / 60, Over-Under: 1080p24, 720p50 / 60
<b>Computer Compatibility</b>	WUXGA, UXGA, WXGA, SXGA+, SXGA, XGA, SVGA, VGA resized, VESA, PC and Mac
<b>Horizontal Scan Rate</b>	15.3 - 91.1kHz
<b>RoHS</b>	Compliant
<b>Vertical Scan Rate</b>	50-85 Hz (120Hz for 3D feature projector)
<b>Video Compatibility</b>	HDTV (720p, 1080i/p), SDTV (480i/p, 576i/p)

## PHYSICAL SPECIFICATIONS

<b>Dimensions (W x H x D)</b>	12.4" x 3.9" x 9.6"
<b>Security</b>	Security bar, Kensington lock, password protection, keypad lock
<b>Weight</b>	6.7 lbs.

### Other

<b>What's in the Box?</b>	H190X, AC power cable, remote control, batteries, quick start user manual
<b>Accessories Part Numbers</b>	4K UHD Casting and Mirror Dongle: UHDCast Pro, Carrying case: BK-4028, Lamp (replacement): BL-FU200D, Remote (replacement): BR-3079N, Universal ceiling mount: BM-5001U
<b>UPC</b>	796435813956
<b>Warranty Info</b>	1-Year parts and labor limited warranty on the projector, 90 days lamp warranty

\*Lamp life is dependent upon many factors, including lamp mode, display mode, usage, environmental conditions and more. Lamp brightness can decrease over time.

† 3D content can be viewed with DLP® Link active shutter glasses when projector is used with a compatible 3D player. Please visit Optoma.com for more information.

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