

## HD50

## Super-sized home cinema

- Full HD 1080p image quality and pure, vivid colours – 2,200 ANSI Lumen brightness
- Easy connectivity - 2x HDMI
- PureMotion technology – to eliminate motion blurring or image judder
- Dynamic black technology - 50,000:1 contrast ratio



# HD50

Super-sized home cinema

Created for movie-lovers, the HD50 brings digital cinema quality images into the comfort of your home. Packed with features, you can experience your favourite films, TV shows and sporting events in vivid clarity with pure, deep colours and high contrast thanks to deeper blacks and crisp whites.

Using advanced processing, the HD50 eliminates motion blurring or image judder, even in high-speed action packed movies and sport.

## Vertical Lens shift

Simplify installation with vertical lens shift, which provides a wider range of projector placement possibilities. This makes it easier to position the projector in your room and enables a wider range of screen size options.

## PureMotion

Using sophisticated frame-interpolation technology, advanced motion control processing eliminates motion blurring or image judder, even in high-speed action sequences.



With



Without

## UltraDetail

This technology ensures all the information contained in an image is faithfully reproduced on the screen giving a stunning crystal clear, pin-sharp picture.



With



Without

## PureColour

This mode makes it possible for the projector to reproduce more detailed shades of colour; to provide vivid, balanced colour for vibrant, natural looking images.



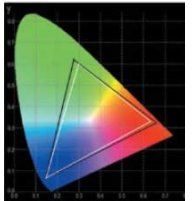
With



Without

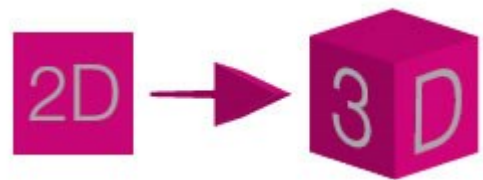
## Colour Management System (CMS)

Display accurate life-like colours to best match your viewing environment. This unique feature provides you with the flexibility to fine-tune the colour settings to the Rec. 709 standard for optimal precision.



## 2D-3D Conversion

See more in 3D with the built in 2D to 3D converter. This means live sport, TV and movies can be enjoyed in stunning 3D making you feel part of the action.



## Long Lamp Life

The expected lifetime of a typical Optoma projector lamp is an impressive 7000 hours; so if you watch a two hour movie every day, the lamp should last for almost 9.5 years.

## Full 3D

Optoma projectors can display true 3D content from almost any 3D source, including 3D Blu-ray players and 3D broadcasting. Support for 144Hz rapid refresh rate provides ultra-smooth flicker free images.



## Dynamic Black

This feature gives more depth to your image by smoothly adjusting the lamp output, based on the brightness information of each frame; to create a stunning high contrast ratio. Bright scenes appear crisp and clear, while dark scenes remain detailed with deep blacks and exceptional light and shade detail.



2,000:1

50,000:1

## 24p

Most movies are shot at 24 frames per second (fps). To preserve the purity of the original image, Optoma projectors can accept high definition sources at 24 fps to display movies exactly as the director intended.

## Color Guarantee

Enjoy dazzling colours for years to come; guaranteed by Optoma for five years' consistent performance.



## Wireless

Stream Full 1080p 3D content to your projector wirelessly; eliminating the hassle and extra cost of installing long cables, the WHD200 (sold separately) allows you to connect a Blu-ray™ player, set-top box or AV receiver instantly.

## Full HD 1080p

1080p resolution gives you sharp and detailed images from HD content without downscaling or compression; perfect for watching Blu-ray movies and HD broadcasting.



## USB-Power

Use the USB-Power to power an HDMI dongle, such as Google Chromecast or the Optoma WHD200 wireless HDMI device.

# HD50 Specification

|                                           |                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Display Technology                        | DLP                                                                                                                                                                                                                                                                                                                                                |
| Native Resolution                         | 1080p 1920 x 1080                                                                                                                                                                                                                                                                                                                                  |
| Brightness <sup>1</sup> (Bright Mode)     | 2200 ANSI Lumens                                                                                                                                                                                                                                                                                                                                   |
| Contrast                                  | 50,000:1                                                                                                                                                                                                                                                                                                                                           |
| Noise Level (Eco mode)                    | 29dB                                                                                                                                                                                                                                                                                                                                               |
| Weight (kg)                               | 3.8                                                                                                                                                                                                                                                                                                                                                |
| I/O Connectors                            | 2 x HDMI (1.4a 3D support), VGA (RGB/YpBPr), Component, Composite, 3D-Sync, 12V Trigger, RS232, USB-A Power, USB Service                                                                                                                                                                                                                           |
| Maximum Resolution                        | 1080p                                                                                                                                                                                                                                                                                                                                              |
| Computer Compatibility                    | UXGA, SXGA, WXGA, HD, XGA, SVGA, VGA, Mac                                                                                                                                                                                                                                                                                                          |
| Video Compatibility                       | NTSC M/J, 3.58MHz, 4.43MHz PAL B/D/G/H/I/M/N, 4.43MHz SECAM B/D/G/K/K1/L, 4.25/4.4MHz 480i/p, 576i/p, 720p(50/60Hz), 1080i(50/60Hz), 1080p(50/60Hz)                                                                                                                                                                                                |
| Displayable Colours                       | 1073.4 Million                                                                                                                                                                                                                                                                                                                                     |
| Projection Lens                           | F/2.42~2.97; f=20.07~31.05mm, 1.5x Manual Zoom                                                                                                                                                                                                                                                                                                     |
| Throw Ratio                               | 1.39 - 2.09:1                                                                                                                                                                                                                                                                                                                                      |
| Projection Screen Size                    | 0.76 - 7.67m (30" - 300") Diagonal 16:9                                                                                                                                                                                                                                                                                                            |
| Projection Distance                       | 1.2 - 10m                                                                                                                                                                                                                                                                                                                                          |
| Zoom Type                                 | 1.5x Manual                                                                                                                                                                                                                                                                                                                                        |
| Aspect Ratio                              | 16:9 Native, 16:10/4:3 Compatible                                                                                                                                                                                                                                                                                                                  |
| Offset                                    | 115% ~ 130%                                                                                                                                                                                                                                                                                                                                        |
| Lamp Type                                 | 240W                                                                                                                                                                                                                                                                                                                                               |
| Lamp Life <sup>2</sup> Dynamic/Eco/Bright | 7000/5000/3000 (hrs)                                                                                                                                                                                                                                                                                                                               |
| Keystone Correction                       | ±30° Vertical                                                                                                                                                                                                                                                                                                                                      |
| Dimensions (W x D x H) (mm)               | 286 x 265.5 x 124                                                                                                                                                                                                                                                                                                                                  |
| Remote Control                            | Full function remote with direct source selecting and backlight                                                                                                                                                                                                                                                                                    |
| Power Supply                              | Input: 110 - 220v                                                                                                                                                                                                                                                                                                                                  |
| Power Consumption                         | 270W BRIGHT mode < 0.5W Standby mode, 230W Eco mode < 0.5W Standby mode                                                                                                                                                                                                                                                                            |
| Operating Conditions                      | 5°C - 40°C, Max. Humidity 85%, Max. Altitude 3000m                                                                                                                                                                                                                                                                                                 |
| Uniformity                                | 80%                                                                                                                                                                                                                                                                                                                                                |
| Security                                  | Security Bar, Kensington Lock                                                                                                                                                                                                                                                                                                                      |
| Standard Accessories                      | Lens Cover, AC Power Cord, Back-lit IR Remote Control with Batteries, Quick Start Card, CD User Manual, Warranty Card                                                                                                                                                                                                                              |
| Optional Accessories                      | Ceiling Mount, Screen                                                                                                                                                                                                                                                                                                                              |
| RoHS                                      | Compliant                                                                                                                                                                                                                                                                                                                                          |
| Lens Shift                                | Vertical: +15% (constraints apply see user manual for details)                                                                                                                                                                                                                                                                                     |
| 3D Support                                | The 3D features of Optoma projectors can only be used with compatible 3D content. Typical applications include use with 3D educational or 3D design and modelling systems. 3D TV broadcast systems, (SKY in the UK), Blu-ray 3D™ and 3D games from the Sony® PS3 or Microsoft® Xbox 360 are now supported as part of the HDMI v1.4a specification. |
| 3D Viewing                                | Requires Optoma ZF2100 system - sold separately                                                                                                                                                                                                                                                                                                    |
| 3D Compatibility                          | Side-by-Side:1080i50 / 60, 720p50 / 60<br>Frame-pack: 1080p24, 720p50 / 60<br>Over-Under: 1080p24, 720p50 / 60                                                                                                                                                                                                                                     |
| Speaker                                   | -                                                                                                                                                                                                                                                                                                                                                  |
| On Screen Display                         | 23 Languages: English, German, French, Italian, Spanish, Portuguese, Polish, Dutch, Swedish, Norwegian, Danish, Finnish, Greek, Traditional Chinese, Simplified Chinese, Japanese, Korean, Russian, Hungarian, Czechoslovak, Arabic, Thai, Turkish                                                                                                 |
| Optional Wireless                         | No                                                                                                                                                                                                                                                                                                                                                 |
| Features                                  | PureMotion, HDMI Link, UltraDetail, 2D-3D Conversion                                                                                                                                                                                                                                                                                               |



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<sup>1</sup>Lamp based projectors brightness and lifetime will vary depending on selected projector mode, environmental conditions and usage. As is common with all lamp based projectors, brightness will decrease over the lamp lifetime. LED projectors do not have a replaceable lamp and the brightness does not decay significantly over the product lifetime. <sup>2</sup>Typical lamp life achieved through testing. Will vary according to operational use and environmental conditions. DLP®, and the DLP logo are registered trademarks of Texas Instruments. All other product names and company names used herein are for identifications purposes only and may be trademarks or registered trademarks of their respective owners. All images of products are for representation purposes only. Whilst every care is taken to provide accurate images of our products, actual products may differ slightly. Some product images may have been digitally altered by us to add an Optoma logo to the front panel. Optoma reserves the right to amend or alter actual product or product images without notice. Some images may have been simulated. Errors and omissions excepted, all specifications are subject to change without notice. Copyright © 2014, Optoma Europe Ltd.

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