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.
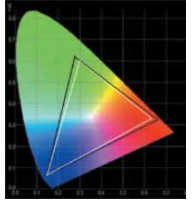
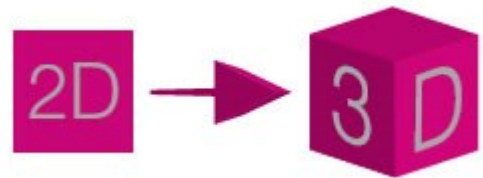**With**   **Without**

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[1] (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[2] 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 Frame-pack: 1080p24, 720p50 / 60 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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