

HD91+



LED Home Cinema Projector















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# LED Home Cinema projector

## **Superior Performance**

Created for discerning viewers the HD91+ sets a new standard for colour performance with consistent, breath-taking, perfectly balanced colours from the first time, every time and for years to come. Whether you just fancy a relaxed movie night or immersing yourself in adrenaline-pumping 3D, the HD91+ is the perfect choice for recreating the big-screen experience.

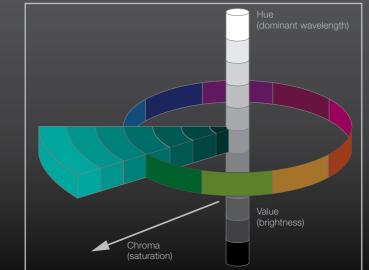
## Optoma LED technology

Powered by 3 x LEDs, the HD91+ delivers enhanced image quality with a wide colour gamut, superior colour saturation and outstanding brightness using separate Red, Blue and Green LEDs to produce intense yet accurate colours. Advanced switching of these LEDs provides increased image stability that rivals the performance of 3 chip DLP projectors.

Performance is nothing without consistency. Unlike traditional lamp technology the LED illumination in the HD91+ provides consistent brightness and colour performance, so maintaining its out-of-the-box image quality throughout its lifetime and saving you from costly calibrations.



The benefits don't stop there. In many situations the perceived brightness of the HD91+ LED projector can be up to twice the brightness of an equivalent lamp-based projector. Utilising this phenomenon, known as the Helmholtz-Kohlrausch (HK) effect, the HD91+ produces vividly intense colours. This enhanced brightness perception enables the HD91+ to comfortably render screen sizes far higher than its ANSI brightness specifications would suggest. This allows the HD91+ to handle low levels of ambient light with less impact on image quality than lamp based systems.



Finally, the lamp-less LED illumination engine that powers the HD91+ does not require the inconvenience and cost of frequent lamp changes to maintain its optimal performance. It also doesn't need lengthy warm-up and cool down cycles before and after every viewing due to its almost instant start up and shut down times.





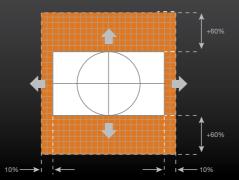
## lexible Placement

The efficiency of the LED powered HD91+ produces less heat so less cooling is required, resulting in near silent operation. Therefore, the HD91+ can be installed closer to walls or ceilings or even built into a small enclosure offering previously unexplored installation options. The light weight 7kg and compact size of the HD91+ simplifies any installation.



### Lens shift

The combination of Lens Shift and a wide 1.9x zoom range enables a wider range of projector placement possibilities. This remarkable combination makes it easier to position the projector in your viewing com and allows a wider range of screen size options.







# Next Generation









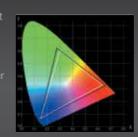






## :MS+

Get perfectly calibrated picture quality mosfitting to the physical setting of your room. The HD91+ comes equiped with a full colour management system, giving you the flexibility to choose between 5 preset color gamuts (Native, Adobe, DLP-C, HDTV and SMPTE-C), 6 colour temperatures (D50, D65, D83, D93 and Native) or alternatively, fine tune intensity and x/y co-ordinates of primary and secondary colours for ultimate calibration procession.



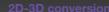
### IDMI Link

Control HDMI CEC compatible devices. HDMI Link allows you to turn on/off the HD91+ and multiple source device with one remote.



## 24p

Most movies are shot at 24 frames per second. To preserve the purity of the original image the HD91+ can accept High Definition sources at 24 frames per second and so to display movies exactly as the director intended.



the big game, your favourite TV shows, and movies in stunning 3D to ensure you get the most out of your experience. Dedicated 2D to 3D technology converts 2D movies and shows into 3D, making even familiar content more thrillingly immersive than ever before.



## Anamorphic Le

The HD91+ allows you to connect an anamorphic lens so you can enjoy cinemscope 2.35:1 movies using the full 1080p resolution of your projector. Using this fully automated solution allows you to view both 16:9 and superwide content without seeing black bars at the top and bottom of your screen.

www.panamorph.com



### BD Glasses

For that seamless 3D experience, use our ultra-high performance ZF2300 wireless 3D glasses. Developed in parallel with our "Full 3D" projectors, the ZF2300 Starter kit and glasses are optimised to provid you with higher contrast & brighter images than ever before, while eliminating tedious issues with emitter placement, limited range and potential interference commonly experienced when using Infra-red

Fully rechargeable, our ZF2300 glasses give you the peace of mind that comes with knowing both installing and using them will be hassle free.





# DLP® Technology – The greatest 3D home cinema experience!

Create the most vivid & compelling 3D experience available anywhere. Unlike competing technologies, DLP from Texas instruments uses millions of tiny mirrors to maximise the available light output and high



It is a widely accepted fact that the bigger the image, the greater the 3D effect - for the best results it is essential to fill your field of vision, without having to be too close to the screen. Even a huge 50" TV like you are part of the action!





picture home like never before. With more matches broadcast in 3D you can re-live them time after time as though you were actually there.











# HD91+

HD91+ Specifications Highlights				
Resolution		Full HD Native 1080p (1920 x1080)		
Brightness <sup>1</sup>		1300 ANSI Lumens		
Contrast		600,000:1		
Audible Noise		23dB		
Throw Ratio		1.5 - 2.89:1		
Zoom		1.9x		
Projection Distance		1.5 – 10m		
Image Size		0.76 - 7.67m (30" - 300") Diagonal 16:9		
Lens Shift		Vertical: +/- 60%, Horizontal: +/-10%		
Keystone		±30° Vertical		
Lamp Life <sup>2</sup>		20,000 Hours		
Connections	Inputs	2 x HDMI v1.4a 3D, VGA (RGB/YPbPr),		
Connections		Component, Video		
	Ott	3D-Sync Out (3-Pin VESA),		
	Output	2 x 12V Trigger, USB-A Power		
	Control	RS232		
		NTSC M/J, 3.58MHz, 4.43MHz		
		PAL B/D/G/H/I/M/N, 4,43MHz		
2D Compatibility		SECAM B/D/G/K/K1/L, 4.25/4.4MHz		
		480i/p, 576i/p, 720p(50/60Hz),		
		1080i(50/60Hz), 1080p(50/60Hz)		
		Side-by-Side:1080i50 / 60, 720p50 / 60		
3D Compatibility		Frame-pack: 1080p24, 720p50 / 60		
		Over-Under: 1080p24, 720p50 / 60		
3D Viewing		Requires ZF2300 Starter kit & Glasses		
Dimensions		345 x 443 x 161.5mm		
Weight		7kg		
Warranty		Warranty may vary by country. Please		
		see or ask your local supplier for details		
Part Number		95.8SF02GC0E		
EAN Number		5055387629288		
In the box		Lens Cover, AC Power Cord, Back-lit		
		IR Remote Control with Batteries, Quick		
		Start Card, Warranty Card		

For full specifications please visit the website at: www.optoma.com





## **HD91+ Connections**

- 1 HDMI 1 (1 4a 3F
- 2 HDMI 2 (1.4a 3D
- **3** VG
- 4 Compone
- Video
- 6 USB Service
- 7 RS232
- 8 +12V Trigge
- 9 +12V Trigge
- **10** 3D Sync
- 11 USB P
- **12** Power
- **13** Kensington<sup>™</sup> Lock

Diagonal Image   Image widtl		Image Height	Distance	
Size (Inch)			Min (m)	Max (m)
70	1.55	0.87	2.32	4.48
80	1.77	1.00	2.66	5.12
90	1.99	1.12	2.99	5.76
100	2.21	1.25	3.32	6.40
120	2.66	1.49	3.98	7.68
150	3.32	1.87	4.98	9.60

Optoma Accessories				
Projector Mounts				
OCM818W OCM818B OCM815B OCM815W	Universal ceiling mount with/without extension pole (adjustable height 290mm–810mm/140 mm) available in black and white.			
Screens				
3	Optoma screens use the highest grade of screen fabrics to reflect the truest, most vivid and dynamic images. Please visit www.optoma.com			



We know that improving our products is the best way to reduce our impact on the environment. That's why at Optoma, we design our products to have a long usable life, use fewer materials, ship with the minimum packaging and be free of all possible toxic substances. Naturally, energy efficiency and being recyclable are built in at the design stage. With each new product, we strive towards minimising our environmental impact. For full details of Optoma Project Green please visit our website.



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