

HD90 / HD91





LED Home Cinema Projector

ouoto



Created for discerning viewers; the HD90 and 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 HD90 and HD91 are the perfect choice for recreating the big-screen experience.

The benefits don't stop there, in many situations the perceived the brightness of an equivalent lamp-based projector. Utilising this



Finally, the lamp-less LED illumination engine that powers the HD90 lamp changes to maintain its optimal performance. It also doesn't need



Precise colour

On start-up the HD90 and HD91 colour and white point are automatically calibrated to ensure the most accurate and consistent colour reproduction over their entire lifetime.

















Additional Features

ectly calibrated picture quality ng to the physical setting of your he HD90 and HD91 come with a full lanagement system, giving you the to choose between 5 preset colour Native, Adobe, DLP-C, HDTV and C), 6 colour temperatures (D50, 3, D93 and Native) or alternatively, intensity and x/y co-ordinates of and secondary colours for ultimate on precision.

_ink

Control HDMI CEC compatible devices. HDMI Link allows you to turn on/off the HD90 and HD91 and multiple source device with one remote.



Most movies are shot at 24 frames per second. To preserve the purity of the original image the HD90 or HD91 can accept High Definition sources at 24 frames per second and so to display movies exactly as the director intended.

2D-3D conversion

See more in 3D with the built in 2D to 3D converter. You can now enjoy 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.

2D --> 3 D

Anamorphic Lens

The HD90 and HD91 allows you to connect an anamorphic lens so you can enjoy 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 content without seeing black bars at the top and bottom of your screen.

www.panamorph.com



3D Glasses

For that seamless 3D experience, use our ultra-high performance ZF2100 wireless 3D glasses. Developed in parallel with our "Full 3D" projectors, the ZF2100 system and glasses are optimised to provide you with higher contrast and 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, the ZF2100 glasses boast a long battery life of up to 15 hours. The stylish and lightweight design ensures comfort and even fit over most prescription glasses.





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



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. A huge 50" TV can only create a window on the 3D world, whereas a massive 150" projection screen



Couldn't get tickets for the big match? The HD90 and HD91 bring the every season, you'll never miss the great moments in sporting history and you can re-live them time after time as though you were actually there.







Awards / Reviews

particular look spectacular and our current 'disc du jour' - Pacific real vitality and detail, giving the images plenty of impact. Optoma

"The 2D performance was excellent and as is often the case with a DLP projector, the 3D was simply superb."

"Whilst Optoma's HD91 might not be a total game changer, it's still a remarkable technological achievement on the part of the manufacturer. If you're in the market for a new home cinema projector affordable end of the custom installation scene." and you like the idea of one that uses LEDs as a light source, your choice is essentially limited to the Optoma. However even if you hadn't considered a LED projector before, the HD91 still deserves your consideration based purely on its excellent performance."



Trusted Reviews Reviewer: John Archer Date: April 2014

Full review

Quotes:

"It's solidly built too, with a surprisingly large and apparently vibrant color and excellent depth. Foreground objects seem friends)." sleek overall feel that doesn't look at all out-of-place in a

"Connections are impressively extensive...This wealth of jacks illustrates clearly Optoma's ambitions for the HD91 - namely for it to be widely adopted by the relatively



Projector Central Reviewer: Bill Livolsi Date: March 2014

Full review

Quotes:

to be built specifically for home theater use. When you view the full range of options is at your fingertips." it in this light, it is a remarkable product. It combines the refined cinema image that enthusiasts have come to expect lamp-based models, then adds an LED light engine with an estimated life of 20,000 hours."



Gadget Speak

Reviewer: Chris Bidmead Date: March 2014

Full review

Quotes:

approaches that of studio quality 3DLP projectors, and it

for Cinema, Games, Reference and so forth, but if you need

"You'll have gathered I liked this projector a lot. Yes, the price-tag makes it by no means an impulse buy. But when you factor in the saving on an illumination system that will last the life of the machine (as against the typical £200 a conventional lamp may cost you every 600 or so viewing hours), the 5 year guarantee on colour quality, and price it against others in its class, the HD91 starts to look like a bargain."

HD90 / HD91

Specifications Highlights							
Model		HD90	HD91				
Resolution		Full HD Native 1080p (1920 x1080)					
Brightness ¹		1200 ANSI Lumens	1000 ANSI Lumens				
Contrast		500,000:1					
Audible Noise		23dB					
Throw Ratio		1.22 - 1.52:1	1.5 - 2.89:1				
Zoom		1.25x	1.9x				
Projection Distance		0.8 - 10m	1.5 - 19m				
Image Size		0.76 - 7.67m (30" - 300") Diagonal 16:9					
Lens Shift		Vertical: +/- 60%, Horizontal: +/-10%					
Keystone		±30° Vertical					
Lamp Life ²		20,000 Hours					
Connections	Inputs	2 x HDMI v1.4a 3D, VGA (RGB/YPbPr), Component, Video					
	Output	3D-Sync Out (3-Pin VESA), 2 x 12V Trigger					
	Control	RS232					
2D 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)					
3D Compatibility		Side-by-Side:1080i50 / 60 Frame-pack: 1080p24, 720p50 / 60 Over-Under: 1080p24, 720p50 / 60					
3D Viewing		Requires ZF2100 system and glasses					
Dimensions (W x D x H)		345 x 443 x 161.5mm					
Weight		6.5kg	7kg				
Warranty		Warranty may vary by country. Please see or ask your local supplier for details					
Part Number		95.8SJ01GC0E					
EAN Number		5060059048564	5060059048571				
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



HD90 / HD91 Connections

1 HDMI 1 (1.4a 3D)

VGA

 Video

USB Servi

+12V Trigg

9 +12V Trigg

10 3D Sync

13 Kensinaton™Lc

Diagonal Image	Image width	Image Height	Distance				
Size (Inch)	(m)	(m)	Min (m)	Max (m)			
HD91							
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			
HD90							
70	1.55	0.87	1.89	2.36			
80	1.77	1.00	2.16	2.69			
90	1.99	1.12	2.43	3.03			
100	2.21	1.25	2.70	3.36			
120	2.66	1.49	3.24	4.04			
150	3.32	1.87	4.05	5.05			

Optoma Accessorie

Projector Mounts

OCM818W-RU OCM818B-RU OCM815B OCM815W

iversal ceiling mount with/without extension e (adjustable height 290mm–810mm/140 mm) iilable in black and white.

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Optoma screens use the highest grade of screen fabrics to reflect the truest, most vivid and dynamic images. Please visit www.optoma.com



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¹Brightness will vary depending on selected projector mode, environmental conditions and usage. ²Lamp lifetime will vary depending on selected projector mode, environmental conditions and usage. For more information please visit our website. 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.