

**Optoma**  
Always Brilliant

## HD21/HD23



**You love big pictures and want the excitement to last all day long.**

The astonishingly bright HD21/HD23 enables exceptional quality Full HD viewing without dimming the lights. With 1900/2500 ANSI Lumens you can invite all your mates round any time of day to watch the big match; enjoy your favorite movies like never before; immerse yourselves in life-size gaming for the ultimate home entertainment experience.

Alternatively, use the extra brightness for an extra-large screen. If you like your image big, the HD21/HD23 makes them as big as they get! Home Cinema with a 5m screen is an awe-inspiring experience of truly phenomenal proportions.



**Full HD**  
**1080**



[www.optoma.com](http://www.optoma.com)

# HD21/HD23

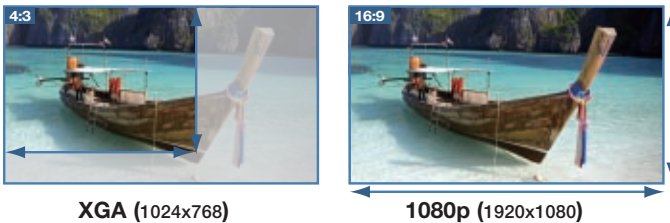


## Widescreen Full HD

The HD21/HD23 home cinema projector delivers the kind of picture quality associated with the best digital cinema performance around the world. With the upgraded DarkChip3 technology, and a digital HDMI signal you can create a true digital projection system that produces a spectacular High Definition cinematic experience in your own home. Thanks to a masterly collaboration of Full HD 1080p, DLP® technology from Texas Instrument and Optoma color and optical expertise, the HD21/HD23 displays vibrant, detailed images with crystal clarity.

## Full HD

Full HD (1920 x 1080) has twice the resolution of standard HD. HD21/HD23 is compatible with HDTV broadcasts and high-definition media to project impressive full 1080p images and video in their original digital brilliance.



## Virtually Maintenance Free = Lower Cost of Ownership

HD21/HD23 provides lower cost of ownership, longer life and improved reliability. The filter-free projector design does not require regular filter cleaning or filter replacement, saving you time and money.



## 24P

Most movies are shot at 24 frames per second. To preserve the purity of the original image the HD21/HD23 can accept High Definition sources at 24 frames per second and so to display movies exactly as the director intended.



## Optoma guarantees color quality will remain as new for 5 years\*

For Home Cinema color accuracy is critical. We are so confident that, unlike competing technologies, the HD21/HD23 color will not change in use that we have guaranteed it will stay the same as the day you bought it, for at least 5 years.



The HD21/HD23 projector based on an all-digital DLP® chip delivers stunning picture quality again and again. Unlike competing analogue technologies, the semiconductor that makes DLP® projection possible is virtually immune to environmental factors that can cause an image to degrade over time.

Projection Distance (m)	Max 16X9 Diagonal Screen Size (inch)	Min 16X9 Diagonal Image Size (inch)
2.0	60.2	50.2
3.0	90.3	75.3
4.0	120.5	100.4
5.0	150.6	125.5
10.0	301.1	251.0

16X9 Diagonal Screen Size (inch)	Max Projection Distance (m)	Min Projection Distance (m)
60	2.39	1.99
80	3.19	2.66
90	3.60	3.00
100	4.00	3.30
120	4.80	4.00

	HD21	HD23
<b>Display Technology</b>	0.65"inch 1080p DC3 DMD from Texas Instruments.	
<b>Native Resolution</b>	1920 x 1080 (native on 1080i/p)	
<b>Brightness (Bright mode)</b>	1900 Lumens	2500 Lumens
<b>ANSI Contrast Ratio</b>	5,000 :1 (With Image AI)	
<b>Projection Lens</b>	f=22.41~26.82 mm, F/2.55~2.87, 1.2 X manual zoom / focus lens.	
<b>Image shift</b>	Up / Down digital Image shift	
<b>Projection Image Size / Distance</b>	38 to 300 inches / 1.5m ~ 9.96m	
<b>Throw Ratio</b>	1.5 ~ 1.8 :1 (distance / width)	
<b>Keystone Correction</b>	Vertical ±5°	
<b>Aspect Ratio</b>	16:9 , 4 :3 ,LBX ,Native	
<b>Video Compatibility</b>	480p, 576p, 720p, 1080i/p, 480i,576i, Full NTSC, NTSC4.43, PAL, PAL-M, PAL-N, SECAM, HDMI (480i/p, 576i/p, 720p,1080i/p), Computer capability up to UXGA(1600 X 1200)	
<b>Input / Output Connections</b>	HDMI x 2, VGA x 1, Component:YCbCr/ YPbPr (RCA) x1, Composite Video x 1, +12V Relay output x1, mini USB (service port ) x 1,	
<b>Uniformity</b>	85 %	
<b>Noise Level</b>	29 dB	
<b>Lamp Type</b>	230-watt User Replaceable lamp	
<b>Lamp Life</b>	4000 hours (STD mode)	
<b>Power Supply</b>	Universal AC 100 ~ 240 volts, 50 / 60Hz	
<b>Dimensions (WxDxH) / Weight</b>	329 x 239 x 99 mm / 2.9kg	

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\*Optoma guarantees that in normal use, Optoma DLP® color quality will be indistinguishable from when new. Please note that worn lamps will give slight variance. Exclusions: \*(1) Guarantee is voided if the projector is subject to damage through mis-use. (2) Guarantee may be void in industrial or commercial entertainment environments where dust or smoke is particularly excessive (3) Guarantee will not apply if lamp brightness is below 50% due to wear or if the projector is not working due to other fault. 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 have been simulated. Errors and omissions excepted, all specifications are subject to change without notice. Copyright © 2011, Optoma Corporation.

