



The HD86 offers a new level in performance. Exceptional ANSI contrast, full lens shift and ultra high performance optics with 3 lens options are combined with superlative signal processing featuring PureMotion2 frame interpolation and extensive CMS and colour gamut control. The HD86 is designed to satisfy the requirements of the most demanding home cinema enthusiast or simply those who require the finest possible image.

*Pure Performance*

Full HD  
1080P



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



HD86



## HD86

Featuring our highest grade, hand selected Pure Optics and available in Standard, Long and Short throw options, all with full lens shift, the HD86 provides pin sharp, crystal clear images in any room. An optional Anamorphic Projection Kit provides a unique “fit and forget” fully automated solution for Constant Height projection.

### ANSI Contrast

ANSI Contrast<sub>†</sub> is a way of measuring the true “real world” contrast performance you can expect from a projector in your own home. This measurement technique includes a reproducible procedure that can be used to compare the performance of projectors using different display technologies.



High ANSI Contrast



Low ANSI Contrast

Don't be misled by contrast ratio specs – a projector with a contrast ratio specification of , for example, 50,000:1 may well have an ANSI contrast ratio specification significantly lower than the H86. Contrast ratio specifications are typically measured using a “Full On, Full Off” technique. This involves measuring the projector performance when displaying a pure black screen and then a pure white screen. Many believe that “Full On, Full Off” contrast measurements may not depict “real world” performance and may not offer the relevant information needed to determine how a projector will look when you are watching movies in your home. If you want to compare projector contrast specifications look for the ANSI contrast specification.

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



For home cinema, colour accuracy is critical. We are so confident that the HD86 image color accuracy will remain as good as the day you bought it that Optoma will guarantee it for at least five years.

### CMS Color Control

Choose between 5 preset color gamuts: HDTV (Rec 709), ITU 601, DLP Cinema, SMPTE-C & Native then fine tune with primary point co-ordinates controls.

### PureMotion2

The second generation of our Frame Interpolation technology provides fluid natural movement free from judder or motion blurring - improving the resolution and clarity of moving images.

### Dynamical Black

Second generation high performance iris for controlling the dynamic contrast - enabling content dependant light modulation for high impact viewing.

### Brightness control

Two lamp power settings and a 9 step manual iris gives unprecedented control over the brightness output enabling it to be tailored for any application.

### Input / Output Connections



- 01. Composite Video
- 02. Component Video
- 03. HDMI 1
- 04. HDMI 2
- 05. HDMI 3
- 06. Service connector (USB B-TYPE)
- 07. Backup Remote Tray
- 08. IR Receiver
- 09. Power Button
- 10. LED Indicators
- 11. 12V OUT B
- 12. 12V OUT A
- 13. RS232
- 14. Power Socket
- 15. Main Power Switch
- 16. S-Video
- 17. VGA Input
- 18. Kensington Microsaver™ Lock Port



HD86 Specifications Highlights	
Full HD	Native 1080P (1920x1080)
ANSI Contrast	700:1 ANSI
Contrast Ratio	50,000:1 (With Image AI)
Uniformity	90 %
Brightness	1500 Lumens
Lens Shift	Vertical : +30% ~ +110%(Manual) Horizontal :-5% ~ +5% (Manual)
Throw Ratio	0.77 (Wide lens) 1.54~ 1.93 (Std lens) 1.93~ 2.89 (Tele lens)
Keystone Correction	Vertical ±5°
Aspect Ratio	16:9, 4:3, LBX, Native
Inputs	3 x HDMI, Component, VGA (PC/SCART), S-video, Composite
Output	2 x 12V OUT (1 programmable)
Video Compatibility	1080p, 1080i, 720p, PAL, NTSC, SECAM
Audible Noise	29dB Standard mode
Lamp Type	280-watt User Replaceable lamp
Lamp Life	3000hrs in normal mode / 2000 hrs in bright mode
Dimensions	419 x 349 x 189 mm
Weight	9kg
Warranty	Warranty may vary by country. Please see or ask your local supplier for details.

Optoma reserves the right to change this brochure without prior notice, please refer to [www.optoma.com](http://www.optoma.com) for any change

\*Optoma guarantees that in normal use, Optoma DLP® colour 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. † “ANSI Contrast” is a recognised contrast measurement technique as described in the standard IEC 61947-1 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 © 2010, Optoma Corporation.

**HDMI™**  
HIGH DEFINITION MULTIMEDIA INTERFACE  
V1.3 with DeepColor



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