

HD83



The Next Generation

Having spent more than 10 years dedicated to bringing the big-screen Cinema experience home; ThemeScene has founded its reputation on delivering truly exceptional performance.

The HD83 is equipped with best-in-class colour saturation for faithful, accurate reproduction of film content; High ANSI contrast, essential for maximising clarity and image depth; combined with exceptional brightness to give you the most vivid images, even on the largest of screens.

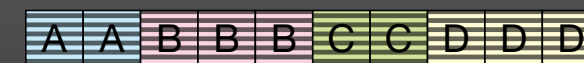
Add full HD 3D support and you ready for the next generation of Home Cinema...

24p

Most movies are shot at 24 frames per second. With the advent of true 24p content in stunning 1080p High Definition, you can now enjoy films exactly as the director intended.

But what about your existing film library? – Using advanced frame conversion techniques, the HD83 can re-capture the original 24p frames from all your favourite PAL/NTSC DVD titles, completely removing unnecessary “pull-down judder” to give them a completely new lease of life.

DVD



Original frames

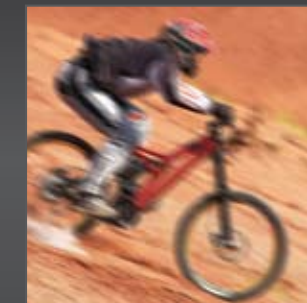


However, during some action-packed scenes, or fast panning motion, the best results can only be achieved, with a little help...

PureMotion



With



Without

Have you ever wanted things just to go smoothly?

The HD83 Incorporates the next generation of our frame-interpolation processing - PureMotion4. In its lowest setting, PureMotion4 retains the “dream like” quality of film while maximising the detail of every frame – whereas the highest setting virtually eliminates motion Blur; perfect for fast-paced sports, where absolute fluidity is essential. Whether you are watching in 2D or 3D, Puremotion4 gives you silky smooth performance.

PureColour



With



Without

PureColour provides vivid, perfectly balanced colour with impeccable colour uniformity for vibrant natural looking images. Deep Color makes it possible for the HD83 to reproduce billions of colours ensuring smooth tonal transitions and subtle graduations between hues.

PureDetail



With



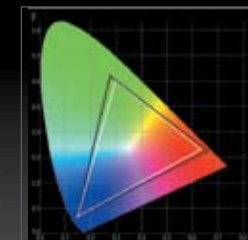
Without

PureDetail uses sophisticated motion adaptive edge enhancement algorithms to ensure that all the information contained in an image is faithfully reproduced on the screen giving a stunning crystal clear, pin sharp picture.

Elegant & Efficient

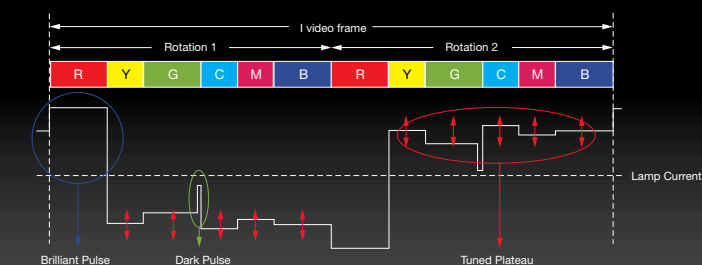
Ultimate Colour control - CMS+

To get the most out of your HD83, a full colour management system, gives you the flexibility to choose between 5 preset colour gamuts; HDTV (Rec 709), ITU 601, DLP Cinema, SMPTE-C & Native; or alternatively, fine tune intensity and x/y co-ordinates of primary and secondary colours for ultimate calibration precision.

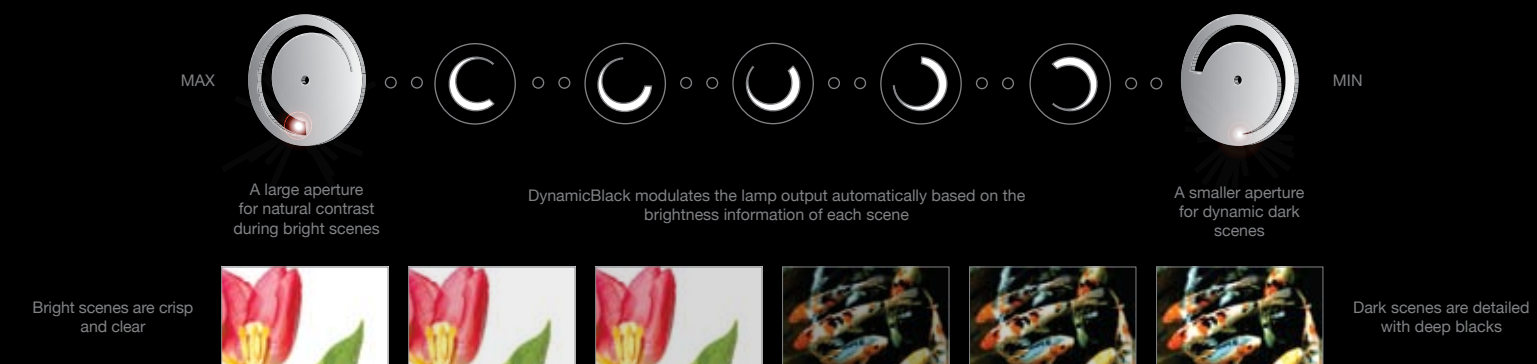


Optimised Efficiency

Advanced lamp-pulsing technologies enable every frame to be analysed and fine-tuned directly from the lamp – this unprecedented control makes it possible to achieve vibrant, perfectly saturated colours across the whole light spectrum while simultaneously ensuring that only the minimum level of power is required.



DynamicBlack



3D Depth & Clarity

DLP Technology and 3D – the perfect partnership.

Unlike competing technologies, DLP® from Texas instrument uses millions of tiny mirrors to maximise the available light output, while the inherent speed & high ANSI contrast work in perfect harmony; eliminating crosstalk, to create the most vivid & compelling 3D experience available anywhere.

DLP®

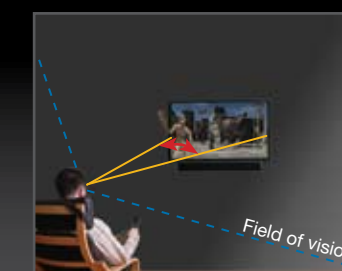


Other



Due to the inherent drop in image brightness using any active 3D glasses, maximising light output is a top priority for 3D displays. This is why we have developed "PureD" – an automated system of advanced image processing and dynamic lamp modes that enhance your viewing experience; providing a 3D brilliance akin to existing 2D projectors without you lifting a finger – Just sit back and enjoy the show!

50" 3D Television



150" ThemeScene Projector



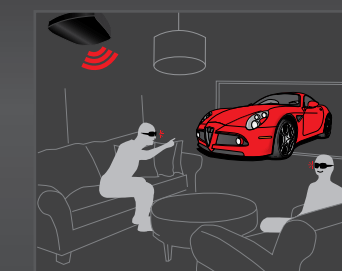
It is a widely accepted fact that the bigger the image, the greater the 3D effect - for the best results it is essential to fill your field of vision, without being too close to the screen. Even a huge 50" TV can only create a window on the 3D world, whereas the immersion & excitement created by a massive 150" projection screen makes you feel like you are part of the action!



The only thing left is the glasses...

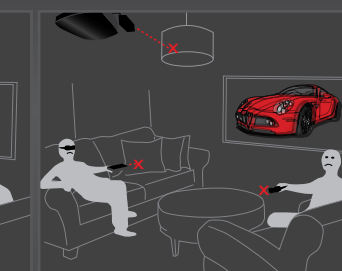
For that seamless 3D experience, we introduce a world-first in home cinema projection – WiFi 3D glasses. Developed in parallel with the HD83, the 3D-RF glasses are optimised to provide higher contrast & brighter images than ever before, while eliminating tedious issues with emitter placement, limited range and potential interference commonly experienced using Infra-red. Also fully rechargeable, our 3D-RF glasses give you the peace of mind that comes with knowing both installing and using them will be hassle free.

3D-RF



- Crystal Clear 3D Image
- Easy Set-up
- Rechargeable

IR



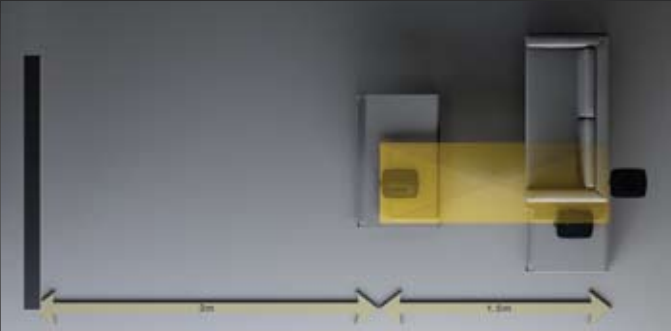
- Cross-talk issues
- Difficult install
- Interferes with remotes

Installation is a breeze



Flexible Placement

The combination of PureShift and a wide 1.5 zoom range enables a wider range of projector placement possibilities. This remarkable combination makes it easier to position the projector in your viewing room and allows a wider range of screen size options.

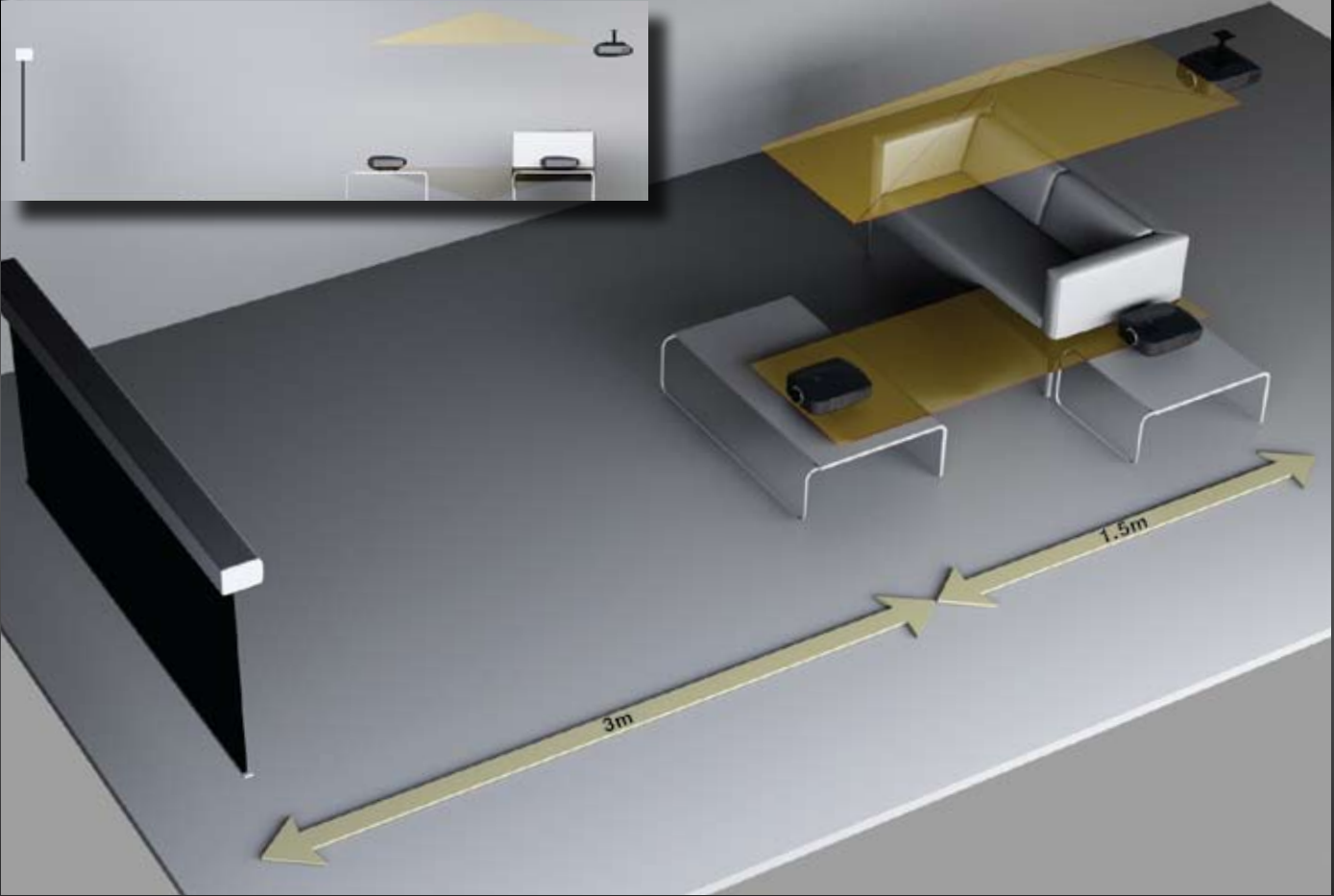


The shaded pyramids show the positions in which the projector can be placed to fill the screen (90").

Diagrams are for illustration only.
For detailed information please refer to the User Manual

Projection Distance

Projection Distance (m)	Diagonal Image Size (inch)	Max Vertical optical shift (m)	Max Horizontal optical shift (m)
3.00	60.2 - 90.3	0.06 - 0.22	0.2 - 0.3
4.00	80.3 - 120.4	0.07 - 0.3	0.27 - 0.40
5.00	100 - 150	0.09 - 0.37	0.33 - 0.50



Technical Specifications	
Highlights	
Full HD	Native 1080p
Display Technology	DLP 1080p
ANSI Contrast	700:1
Contrast	50:000:1
Audible Noise	22dB (ECO mode)
Optical Image Shift	Vertical : +105% ~ +130%, Horizontal : -15% ~ +15%■
Brightness¹	1600 Video Optimised Lumens
Connections	
Signal Type	Input Connector
HDMI	2* HDMI 1.4a (3D Supported)
Component	3 x RCA
3D Sync Out	VESA 3-Pin Mini DIN
Composite Video (CVBS)	RCA
RGB Computer	VGA
Screen triggers	1 x Standard 12v screen trigger, 1 x Programmable 12v trigger
RS232	9 pin D-Sub
Video Compatibility	PAL, SECAM (576i/p), NTSC (480i/p), HD1080P60\50\24, 1080i, 720p)
3D Compatibility	Side-by-Side: 1080i50 / 60, 720p50 / 60 Frame-pack: 1080p24, 720p50 / 60 Over-Under: 1080p24, 720p50 / 60
Display	
Aspect Ratio	16:9
Throw Ratio	1.50-2.28 (Projection Distance/Image Width)
Manual zoom	x1.5
Projection Distance	1.5m – 12.5m
Image Size	0.76 - 7.67m (16:9 Diagonal)
Keystone Correction	Vertical
Projection Types	Front, Ceiling, Rear, Rear ceiling
Lamp Type	280w
Lamp Life	4000 hours (ECO mode)*
General	
Dimensions	490 x 372 x 194 mm (180mm excl. feet)
Weight	8.4 kg
Power Consumption	375W Max, <1W standby
Operating Temperature	5-35°C Max, 80% Humidity
Mounting	Ceiling mount points
Warranty	Warranty may vary by country. Please see www.optomaeurope.com or ask your local supplier for details
OSD Languages	English, French, German, Spanish, Italian, Portuguese, Dutch, Swedish, Finnish, Greek, Danish, Norwegian, Polish, Russian, S Chinese, T Chinese, Korean, Japanese, Hungarian, Czech, Arabic & Turkish
Supplied accessories	AC power cord, Main Remote control with backlight, Backup remote control, Batteries for Remote controls, Lens cap, Users guide, 2 x 12v trigger connectors, 4 x M6 screws for use with ceiling mount
Optional accessories	Ceiling Mount Kit
EAN Number	5060059045730

■ Typical lamp life achieved through testing. Will vary according to operational use and environmental conditions

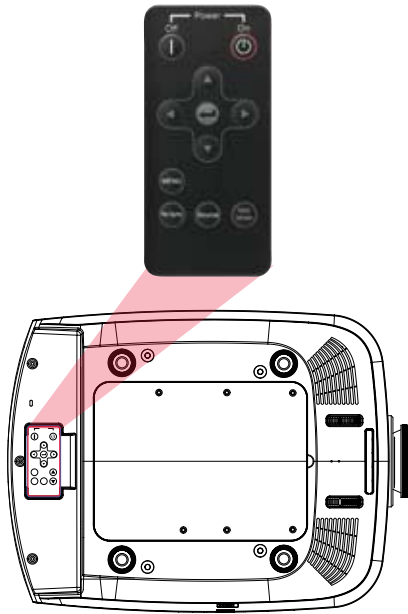
■ Optical Image Shift – Both extremes of the horizontal and vertical shift can not be used simultaneously. See user manual for future details.



- HD83 Connections**
- 12V Trigger A
 - 12V Trigger B
 - RS232
 - Composite Video
 - 3D Sync Out
 - Component Video
 - VGA Input
 - HDMI (1.4a 3D support)
 - HDMI (1.4a 3D support)
 - Power Socket

Backup Remote Control

Main Remote Control



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