■ Specifications

Model				HC4000
Projection system				DLP™ system
Panel specs	Panel size			0.65 DMD, Aspect ratio 16:9
	Number of pixels			1920x1080
	Drive system			DMD reflection system
	Array			Stripe pattern
Optical specs	Lens	Zoom / focus operation *1		1.5x manual zoom / manual operation
		f (mm)*1		20.6-30.1
	Light source lamp			230W (at standard mode), 190W (at low mode)
	Optical system			Time-division color separation / composition system
Color wheel				6 segment (RGB RGB), 4x
Projection screen size (inches)				50-300
Images	Brightness (lm)*1*2			1300 (Max),
	Contrast ratio*1			750:1 ANSI, 4000:1 (ON/OFF)
	Resolution		PC input	VGA 640x480 - UXGA1600x1200,1920x1080
	Scan frequency		Horizontal (kHz)	15-80
			Vertical (Hz)	50-85
Input signal system	Video			NTSC, NTSC4.43, PAL (including PAL-M and N), SECAM, PAL-60 Video input: 480i/p, 576i/p, 1080i 60/50, 1080p 60/50/24, 720p 60/50
	PC			PC/AT compatibles, Mac, PC98
Input	Video	PC input	Mini D-Sub 15 pin	1 terminal
		HDMI input	HDMI terminal	1 terminal (Ver.1.3, Deep color)
		Composites	RCA terminal	1 terminal
		S	S-Video terminal	1 terminal
		Components	RCA terminal	1 terminal (component can be also input to Mini D-Sub 15 pin)
	Serial			1 terminal (Mini DIN 8 pin, RS-232C follow)
Functions	Gamma mode			3 patterns + 2 users
	Digital keystone (Vertical)			±15 steps
	Power source voltage			AC100V 50/60Hz
	Power consumption (W)			340 (at waiting 0.4W)
	Weight (kg / lbs)			3.6 / 7.9
	Main unit dimensions (WxDxH)			345x129x270mm / 13.6"x5.1x10.6" (excluding height adjustment)
Other	Supplied accessories			Power source cord (1.8m), Remote control, AA batteries (x2), RGB signal cable, Lens cap, Lamp replacement attachment

*1 Varies depending on conditions. (Specifications are different for lens-less models.) *2 Compliant with ISO21118 - 2005. *3 All brand names and product names are trademarks, registered trademarks or trade names of their respective holders. Lamp life specification is an estimate based on verification under proper conditions and is not the duration of the warranty. Lamp will shut-off automatically when usage reaches the specified estimated maximum lamp hours. Service life may vary widely depending on usage and operating environment and conditions, as well as users' adherence to the maintenance and cleaning procedures provided in the user manual.

■ Terminals

■ Option

Replacement Lamp

VLT-HC3800LP

eco Changes **for a greener tomorrow**

Eco Changes is the Mitsubishi Electric Group's environmental statement, and expresses the Group's stance on environmental management. Through a wide range of businesses, we are helping contribute to the realization of a sustainable society.

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New publication effective Sept. 2010.
Specifications are subject to change without notice.

LITHC4000

Changes for the Better

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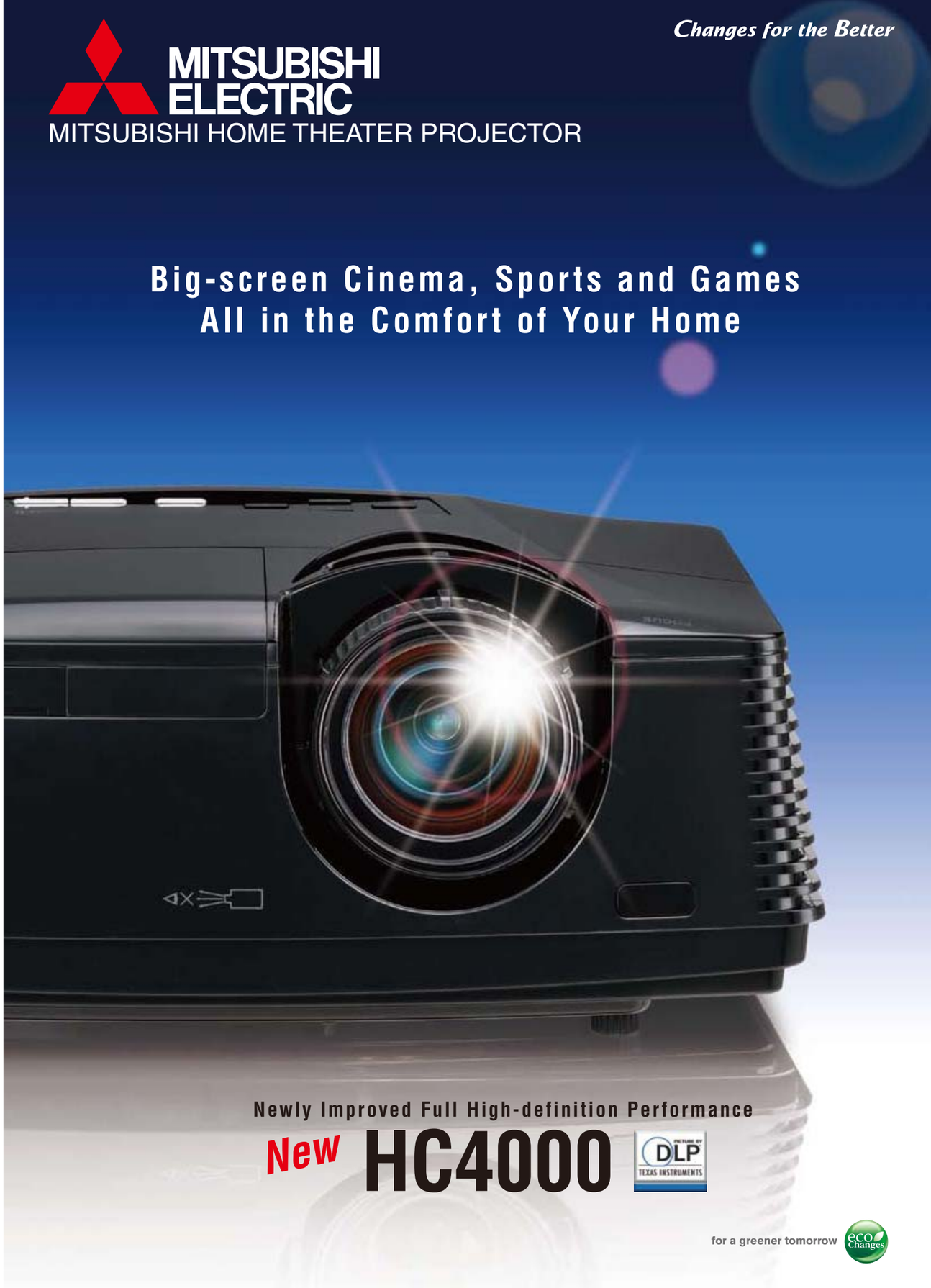
MITSUBISHI HOME THEATER PROJECTOR

Big-screen Cinema, Sports and Games All in the Comfort of Your Home



Newly Improved Full High-definition Performance

New HC4000

DLP TEXAS INSTRUMENTS

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Movies, TV programs, games and more
Enjoy it all in high-definition on 100”+ screens

Imagine it—the HC4000 bringing you hours of viewing pleasure in the comfort of your own home.
Easy to set-up and operate – the HC4000 reproduces beautiful, high-definition (HD) imagery, bringing movies and TV programs to life with vivid, sharp colors, and adding new meaning to the word “excitement” when playing games. Enjoy it all on a large 100”+ screen while relaxing on the your living room sofa.

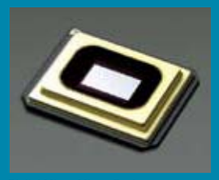
Finally, an affordable full-HD projector that spares nothing to ensure a new dimension in viewing pleasure.
An amazing level of beauty and excitement you need to experience with your own eyes.

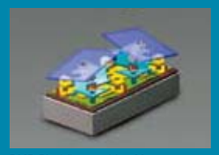
FULL HD 1080 | HDMI HIGH DEFINITION MULTIMEDIA INTERFACE | DLP TEXAS INSTRUMENTS

HOME THEATER PROJECTOR
New HC4000

High-performance 0.65-in DLP™ DarkChip3™

A key feature of the HC4000 is the latest Digital Light Processing (DLP™) chip incorporating a new digital micromirror device (DMD) comprised of densely embedded micromirrors.
A smaller mirror cavity diameter and narrower gaps between the mirrors improve the aperture ratio of the innovative chip, and reflective light diffusion has been greatly reduced by improving the wiring below the mirror section. The mirrors are controlled to tilt repeatedly several thousand times per second, enabling smooth, true repro - duction of the digital source into finely detailed images with no noise or deterioration.


Digital Micro-Mirror Device


DMD Pixel Composition Map

1300lm, contrast: 750:1 ANSI, 4000:1 (ON/OFF)

A fixed iris is adopted, realizing both enhanced brightness and contrast for images. Even in a relatively bright living room with the curtains closed, movies, sports and other programs from high-definition broadcasting and Blu-ray sources can be fully enjoyed in high-definition images.

Full High-definition-compatible 1.5x Short-throw Zoom Lens

A newly developed short-throw zoom lens has been adopted. The 4-cluster, 13-piece all-glass lens provides excellent focusing performance with 1.5x magnification of high-definition images. Improvements in image depth and the lens aperture make it possible for deep blacks to be expressed.

High-output, Long-life Lamp & Quiet performance

The light source is a 230W high-output lamp capable of a long estimated lifetime of up to 5000 hours when operating in low mode. The low-noise fan is specially designed for cooling efficiency taking factors such as fan and color wheel shape into consideration, yet ensuring impressively low 25dB quietness when operating in low mode.

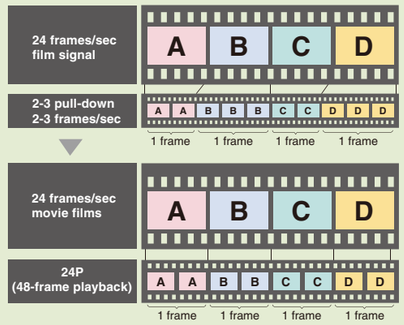
DDP3021 Full 10-bit Panel Driver

The built-in DDP3021 full 10-bit panel driver realizes approximately four times the gradation of 8-bit models, providing smooth expression of dark gradation subtleties.

Blu-ray 24P direct output compatible

Capable of handling an output of 48P, twice the speed of cinema film (24 frames per second), precise timing ensure true-to-life reproduction with original, smooth movement.

2-3 Pull-down
At the time of converting 24 frames per second into 60 frames per second, when lining up the second and third frames in sequence, there is a surplus third B frame, which deteriorates movement smoothness.



24P direct output
With 24P direct output, the 24 frames per second is converted a full order to a 48 frames per second. This allows sequential matching of two frames at a time, thereby enabling image reproduction with the original smoothness.

Richer, More True-to-life Colors

The HC4000 is equipped with a six-segment color wheel capable of reproducing a standard illumination at the color temperature of D65 (6.5 million). Signals from video sources are reproduced with more true-to-life colors and richer gradation.

Color Management for Preferred Color Adjustment

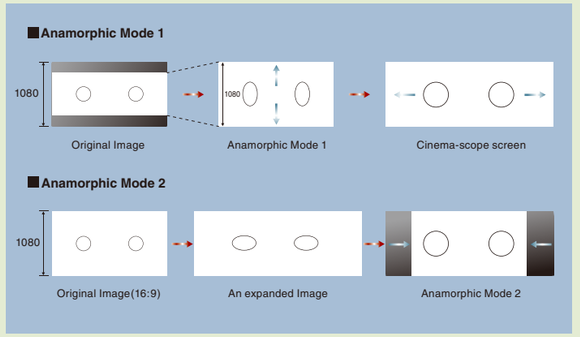
Adjust images to your color preferences. R (red), G (green), B (blue), C (cyan), M (magenta), and Y (yellow) can each be adjusted individually with the built-in color management function.


Before adjustment

After adjustment

Anamorphic Lens Compatibility - Choose Setting Based on Media Played

The anamorphic lens compatibility of the HC4000 widens the projection range of cinema-scope images. Mode 1 proves extended projection, and Mode 2 is for images other than cinema-scope, which mirror the original with the anamorphic lens attached.



BrilliantColor™

A new color processing algorithm and improvements in system-level color signal picture quality enable the reproduction of the many mid-range colors in video and natural scenery.

Adjustable Overscan

For images such as those from DVD sources, the overscan ratio can be varied between 90 and 100% in 1% intervals when HDMI/components are connected.

One-touch projection

The projector power switch and electric screen (roll down/retract) control are linked, providing a convenient one-touch operation trigger.

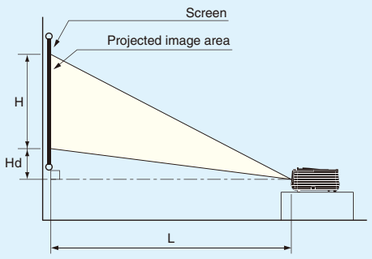
Screen Distortion Correction

Correct screen distortion using the shape distortion correction function for digital models. Vertical distortion correction of ±15 steps (1 step approximately 1°) is possible.

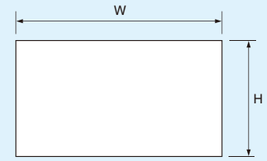
Projection Distance

Screen size (16:9)				Projection distance(L)	
Diagonal (inch)	Width(W) (cm)	Height(H) (cm)	Hd (cm)	Shortest (wide) (m)	Longest (Tele) (m)
50	111	62	21	1.5	2.3
60	133	75	25	1.8	2.7
70	155	87	29	2.1	3.2
80	177	100	34	2.4	3.6
90	199	112	38	2.7	4.1
100	221	125	42	3.1	4.6
110	244	137	46	3.4	5.0
120	266	149	50	3.7	5.5
150	332	187	63	4.6	6.9
200	443	249	84	6.2	9.2
250	553	311	105	7.7	11.5
300	664	374	126	9.3	-

Projection Installation



Floor mounted



Relationship between 16:9 screen and projected images