


Changes for the Better



MITSUBISHI ELECTRIC

MITSUBISHI HOME THEATER PROJECTOR

Specifications

Model		HC3800		
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	Zoom / focus operation	1.5-power zoom / manual operation		
	f (mm)	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) x4		
Projection screen size (inches)		50-300		
Images	Brightness (lm)	1300 (Max), 1200 (typ)		
	Contrast ratio	3300:1		
	ANSI Contrast ratio	650:1		
	Resolution	VGA 640x480 - 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)
		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 / RS-232C standard	1 terminal (Mini DIN 8 pin)		
Functions	Gamma mode	3 patterns + 2 users		
	Digital keystone (Vertical)	±15 steps		
	Power source voltage	AC100-240V 50/60Hz		
	Power consumption (W)	340 (at waiting 0.5W)		
	Weight (kg / lbs)	3.5 / 7.7		
	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		

*All brand and product names are trademarks or registered trademarks of their respective companies.

Terminals



Option

Replacement Lamp



VLT-HC3800LP

Easy Access to Amazing Beauty

 **MITSUBISHI ELECTRIC CORPORATION**
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To find out more about HC3800 and our projectors, visit us at

Global.MitsubishiElectric.com/projectors/



Introducing Affordable Full High-definition

NEW HC3800



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

Imagine it... Hi-Vision technology bringing you hours of viewing pleasure in the comfort of your own home. Easy to set-up and operate – the HC3800 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.



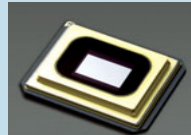
HOME THEATER PROJECTOR

NEW HC3800

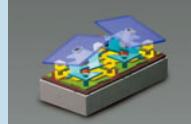


The latest 0.65 DLP™ chip

A key feature of the HC3800 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 reproduction of the digital source into finely detailed images with no noise or deterioration.



Digital Micro-Mirror Device



DMD Pixel Composition Map

1300lm brightness, 3300:1 native contrast



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.

1.5x Short-throw HD 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 25dBA quietness when operating in low mode.



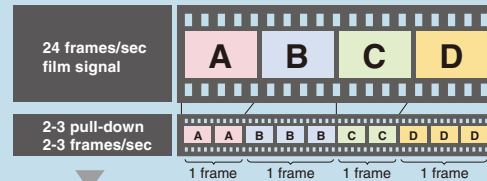
DDP3021 Full 10-bit Panel Driver

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.

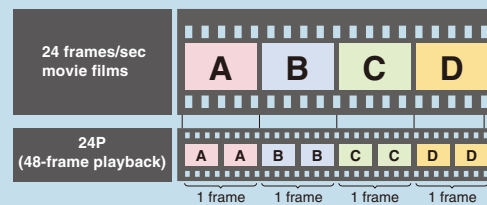
Blu-ray 24P direct output compatible

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 HC3800 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.



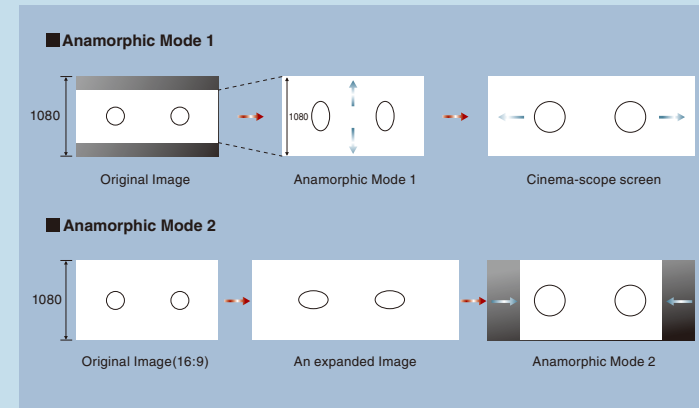
Before adjustment



After adjustment

Anamorphic Lens Compatibility - Choose Setting Based on Media Played

The anamorphic lens compatibility of the HC3800 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.

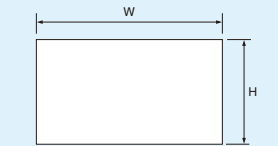
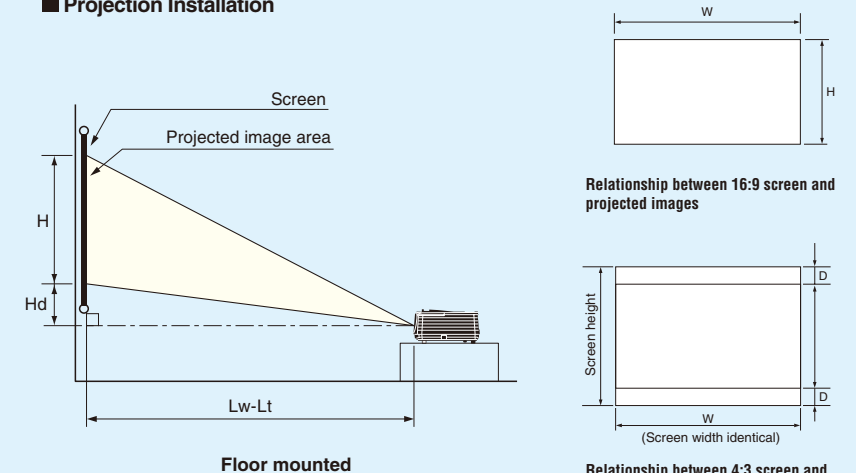
Screen Distortion Correction

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

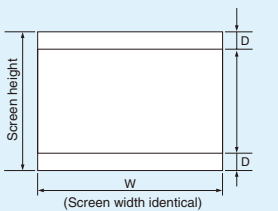
Projection Distance

Diagonal	Screen size (16:9)			Projection distance	
	W (width)	H (height)	Hd(cm)	Max Zoom	Min Zoom
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	644	374	126	9.3	-

Projection Installation



Relationship between 16:9 screen and projected images



Relationship between 4:3 screen and projected images