

Changes for the Better



**MITSUBISHI ELECTRIC**  
MULTIMEDIA DATA/VIDEO PROJECTORS

■ 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	Lens	Zoom / focus operation 1.5-power zoom / manual operation	
	f	20.6mm - 30.1mm	
	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		50"-300"	
Throw ratio		1.52 - 2.26	
Images	Brightness	1300lm (Max), 1200lm (typ)	
	Contrast ratio	3300:1	
	Resolution	PC input	VGA 640x480 - 1920x1080
	Scan frequency	Horizontal	15-80kHz
Vertical		50-85Hz	
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	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 cord, Remote control, AA batteries (x2), RGB signal cable, Lens cap, Lamp replacement tray
	Optional accessories		Ceiling Mount (PROJ-UCM-PRO2), Ceiling Mount Accessory (PROJ-FCA), Replacement Lamp (VLT-HC3800LP)
	Warranty		2-years parts and labor, 1-year or 500 hours on lamp (whichever comes first)

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■ Terminals



■ Option

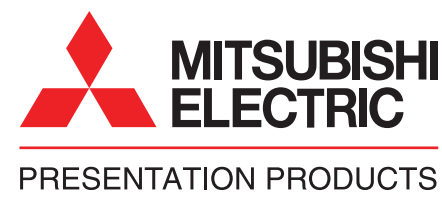
Replacement Lamp



VLT-HC3800LP

*Easy Access to Amazing Beauty*

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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

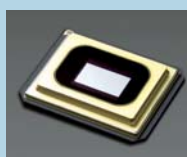
**NEW HC3800**



Illuminated remote control

## 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

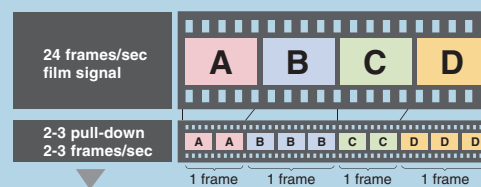
The built-in DDP3021 full 10-bit panel driver realizes approximately four times the gradation of 8-bit models, providing smooth expression of dark gradation subtleties.

## 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.

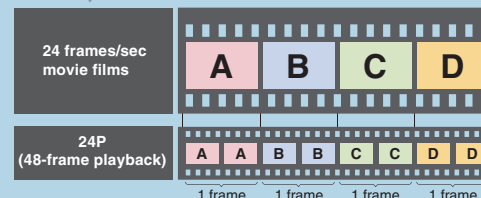
### 2-3 Pull-down

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.



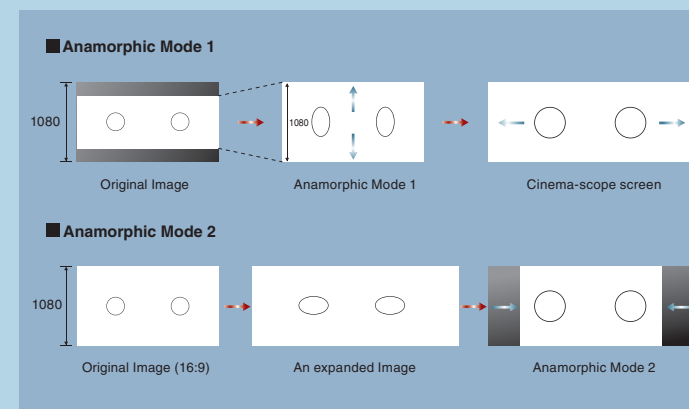
Before adjustment



After adjustment

## Anamorphic Lens Compatibility - Choose Setting Based on Media Played

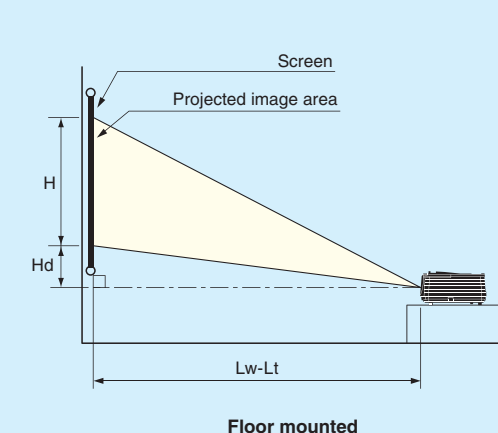
The anamorphic lens compatibility of the HC3800 widens the projection range of cinema-scope images. Mode 1 proves extended projection, and Mode 2 is for images other than cinema-scope, which mirror the original with the anamorphic lens attached.



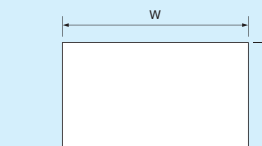
## Projection Distance

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	-

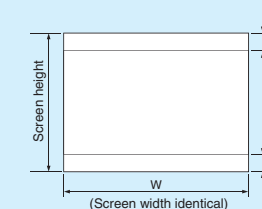
## Projection Installation



Floor mounted



Relationship between 16:9 screen and projected images



Relationship between 4:3 screen and projected images