


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, 12deg.LVDS, DDP3021	
	Number of pixels	1920x1080 (Total pixels 2,073,600)	
	Drive system	DMD reflection system	
	Array	Stripe pattern	
Optical specs	Lens	Zoom / focus operation	Manual focus & zoom / zoom ratio=1.5:1 w/ trigger
		f	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		40"-300"	
Throw ratio		1.52 - 2.26	
Images	Brightness	1300lm (Max)	
	Contrast ratio	650:1 ANSI Contrast (Estimated 4,000:1 Full ON Full OFF)	
	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
		HDMI input	HDMI terminal
		Composites	RCA terminal
		S	S-Video terminal
		Components	RCA terminal
	Serial / RS-232C standard	1 terminal (Mini DIN 8 pin)	
	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)	

*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

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MITSUBISHI ELECTRIC
 PRESENTATION PRODUCTS

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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... Mitsubishi technology that brings you hours of viewing pleasure in the comfort of your own home. Easy to set-up and operate – the HC3800 creates 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 HD video games. An you can enjoy it all on a large 100"+ screen while relaxing on your living room sofa.

Finally, our HC3800 is an affordable full-HD projector that spares nothing to add new dimensions in viewing pleasure. It's 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 (DLPTM) 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 is greatly reduced by improving the wiring below the mirror section. The mirrors are controlled to tilt repeatedly several thousand times per second for smooth, true reproduction of finely detailed images with no noise or deterioration.



Digital Micro-Mirror Device



DMD Pixel Composition Map

High Brightness and High Contrast

A fixed iris provides both enhanced brightness and contrast for clear, sharp images. Even in a relatively bright living room with the curtains open, movies, sports and other programs from high-definition broadcasting and Blu-ray sources are fully enjoyed in amazing high-definition.

1.5x Short-throw HD Zoom Lens

A newly developed short-throw zoom lens is on the HC3800. 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. We took fan and color wheel shape into consideration to create a low-noise fan specially designed for cooling efficiency, ensuring impressively low 25dB quietness when operating in low mode.



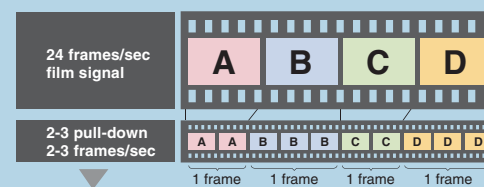
DDP3021 Full 10-bit Panel Driver

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

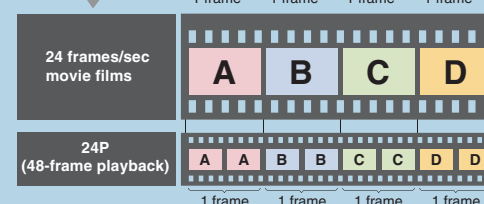
Blu-ray 24P direct output compatible

Capable of handling an output of 48p, twice the speed of cinema film (24 frames per second), precise timing ensures true-to-life reproduction with original, smooth movement in fast action scenes.

2-3 Pull-down
When converting 24 frames per second into 60 frames per second, and 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, 24 frames per second is converted to 48 frames per second. This allows sequential matching of two frames at a time, thereby enabling image reproduction with original sequence smoothness.



Richer, More True-to-life Colors

The HC3800 is equipped with a six-segment color wheel capable of reproducing standard illumination at the color temperature of D65 (6.5 million colors). 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.

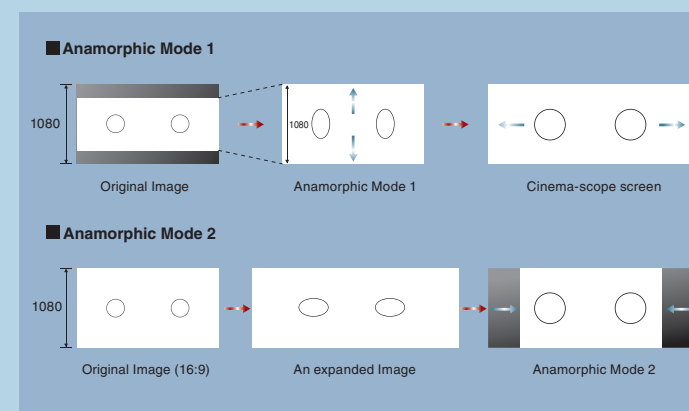


Before adjustment

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 that mirror the original with the anamorphic lens attached.



BrilliantColor™

A new color processing algorithm and improvements in system-level color signal quality reproduces many mid-range colors in video and natural scenery for rich, vivid images.

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.

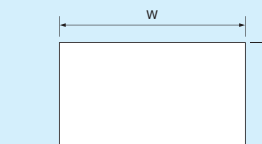
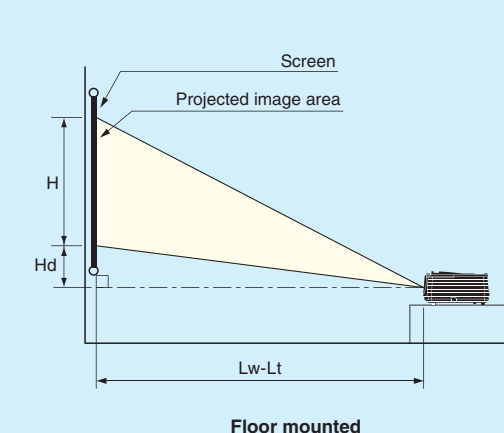
Screen Distortion Correction

Correct screen distortion using the shape distortion correction function to adjust up to ±15 steps (1 step approximately 1°) for vertical distortion correction.

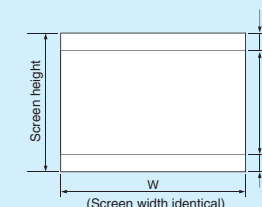
Projection Distance

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