Specifications

Model				HC7900DW
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			240W (at standard mode), 190W (at low mode)
	Optical system			Time-division color separation / composition system
Color wheel				6 segment (RGB RGB), 4x/6x*2
Projection screen size (inches)				50-300
Images	Brightness*1			1500 lm (Max.)
	Contrast ratio*1			150000:1 (when the Iris is closed)
	Resolution		PC input	VGA 640x480 - UXGA 1600x1200, 1920x1080
	Scan frequency		Horizontal (kHz)	15-85
			Vertical (Hz)	24-85
Input signal system	Video			Video input: 480i/p, 576i/p, 1080i 60/50, 1080p 60/50/24, 720p 60/50
	PC			PC/AT compatibles, Mac, PC98
Input	Image	Analog RGB	Mini D-sub 15pin	1 terminal
		Digital RGB	HDMI terminal	2 terminals (3D/Deep Color compatible)
		Components	RCA terminal	1 terminal (component can be also input to Mini D-Sub 15pin)
	Serial		Serial terminal	1 terminal (Mini D-sub 9pin)
Functions	Picture mode			4 patterns + 3 AV memories
	Digital keystone (Vertical)			±15 steps*3
	Power source voltage			AC100-240V 50/60Hz
	Power consumption (W)			380 (at waiting 0.5W)
	Weight (kg / lbs)			5.7 / 12.6
	Main unit dimensions (WxDxH)			396x328x142mm / 15.6"x12.9"x5.6" (Not including protrusion)
Other	Supplied accessories			Power source cord (1.8m), Remote control, AA batteries (x2), Emitter cable (3m), RGB signal cable, Lens cap, Lamp replacement attachment

*1: Varies depending on conditions. *2: Can be set to dedicated 24P signal when displaying 2D images. *3: Trapezoidal correction not possible when displaying 3D images. ■All the 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. ■"HDMI, the HDMI Logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries."

Options

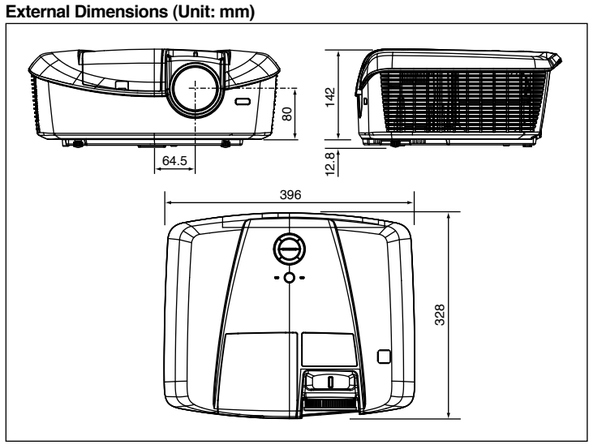
3D Emitter

EY-3D-EMT2H

Replacement lamp

VLT-HC7800LP

External Dimensions (Unit: mm)



*Not including protrusion. *The Lens focus point is the default set at the time of shipment from the factory.

Terminals

Remote control

3D Viewing Precautions

- Each person perceives 3D images differently. There may be times when viewing causes a person to feel uneasy.
- If a person begins to feel tired or uncomfortable when viewing 3D images, they should stop watching immediately.
- When watching 3D programs, be sure to take occasional breaks and do not watch continuously for long periods of time.
- The viewing of 3D images is not recommended for children under the age of 5~6.
- The proper viewing form for 3D images is to wear 3D Glasses and have both eyes horizontal to the screen as much as possible.
- 3D Glasses are fragile and may break if the frames are twisted or if handled recklessly. Do not watch 3D programs if the 3D Glasses are defective or there is a problem with them.
- When viewing 3D images, it is recommended to sit at a viewing distance equal to at least three times the effective screen size.

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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To find out more about the HC7900DW and other projectors, visit us at

http://www.MitsubishiElectric.com/projectors/

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Specifications are subject to change without notice.

MITSUBISHI ELECTRIC
Changes for the Better

for a greener tomorrow

HOME THEATER PROJECTOR

Beautiful Refined 3D Screening in the Privacy of Your Home

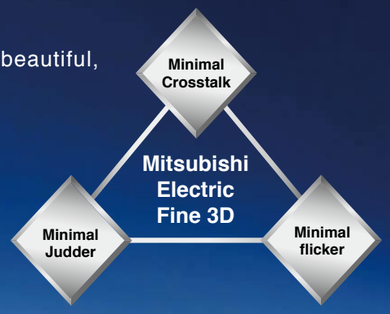
New

HC7900DW

PICTURE BY DLP TEXAS INSTRUMENTS

Experience dynamic movie theater-like action, right here...

The HC7900DW home theater projector utilizes Mitsubishi Electrics cutting-edge image-processing technologies to project beautiful, exciting cinema-like images in the privacy of your own home. Image reproduction has been refined for brighter, sharper and clearer 3D viewing performance free from phenomena such as crosstalk, judder and flicker.



New

HC7900DW

3D HDMI HIGH DEFINITION MULTIMEDIA INTERFACE FULL HD 1080 isf ccc

Enjoy viewing with general-use 3D glasses available in the market

The 3D experience can also be enjoyed using commercially available 3D glasses.

*Some types of glasses may not work with this unit.
Please confirm compatibility at the retail store before purchase.
Wireless glasses cannot be used.

Minimal Crosstalk

Quick-response DLP™ pixel elements prevent the mixing of left and right eye images, realizing sharp picture reproduction.

Image with crosstalk

Minimal Judder

Combined with a 3D-compatible frame rate converter (FRC), high-definition images with nominal image lag are achieved.

Please see reference on right page.

Image with judder

Minimal Flicker

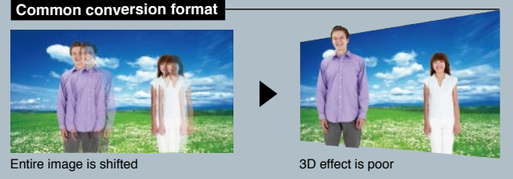
Flicker when the screen is white has been reduced through use of a 120Hz conversion process in addition to that of the conventional horizontal 96Hz display. (minimal judder and minimal flicker cannot be applied simultaneously).

Image showing "white flicker" effect

Enjoy Favorite Movies of the Past in 3D – Built-in high-precision conversion feature

Thanks to motion-vector analysis technology, the position of a person can be distinguished from the background and a moderate parallax added to produce the sensation of depth used in 3D images. Unlike simple 2D-to-3D conversion where the entire screen is shifted, 3D images with a natural sensation of depth are reproduced, making it possible to bring even classic films back to life in vivid 3D.

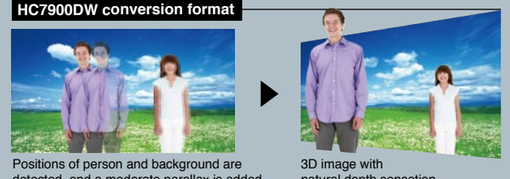
Common conversion format



Entire image is shifted

3D effect is poor

HC7900DW conversion format



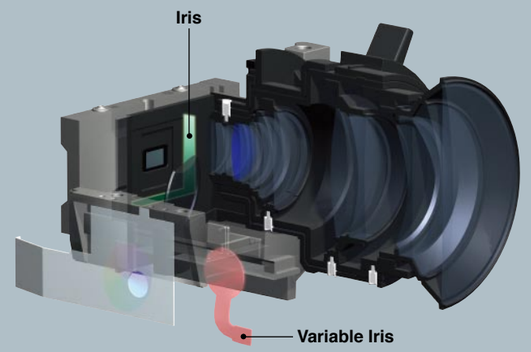
Positions of person and background are detected, and a moderate parallax is added

3D image with natural depth sensation

The Latest Image Technologies Brought Together for Cinema-like Quality in 2D or 3D

New optical engine with comprehensively improved contrast and light leakage realizing high contrast of 150000:1

A variable iris is incorporated for optimal DLP™ pixel elements. Excellent black immersion is possible even when scenes change instantaneously from light to dark. In addition to this, a fixed iris is installed near the DMD chip. These features combine to further improve contrast.



New Variable Iris

Possible to set high-speed (6x) drive

As well as the conventional drive speed, a high-speed (6x) drive can be set exclusively for the 24P signal in 2D. This feature minimizes the color breaking noise that is produced due to color-wheel-based color separation methods.

FRC installed – Reproduce content supplemented with optimal frame number

Applying motion-vector analysis technology, data from the previous and succeeding images are used to produce highly accurate image frames. The optimal number of frames is supplemented to match the contents and the final image is reproduced. As a result, motion blur in the vertical, horizontal and diagonal directions is suppressed.

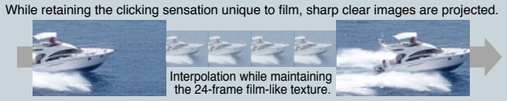
True Video Mode

Blur is suppressed using video image motion interpolation.

New frames are created from previous and succeeding images.

True Film Mode

While retaining the clicking sensation unique to film, sharp clear images are projected.



3D FRC

Minimal Judder: Even for 24-frame 3D images, sharp clear images are reproduced.

High 1500lm (Max.) luminance with clear, high-definition images

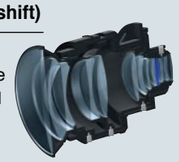
In addition to Variable Iris, a high-power lamp is adopted, providing both enhanced image brightness and contrast. The high 1500-lumen (Max.) brightness ensures that, in both 2D and 3D, high-resolution images are clearer, sharper and more vivid than ever.

3D images reproduced in full high-definition with fine gradation

- Equipped with two full 10-bit panel drivers (DDP3021)
- PNX 5130 chip of FRC installed.

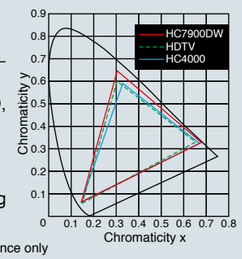
High-performance extra-low-dispersion lens for full high-definition resolution (with V-lens shift)

Compared to commonly used glasslenses, the projector is equipped with a high-performance extra-low-dispersion (ED) lens system comprised of a total of 13 lenses in four groups. Chromatic aberration is minimized to the fullest and image resolution is improved throughout, including the periphery.



High-quality coloration faithful to image source reproduced

The HC7900DW incorporates the color reproduction performance of the HC9000D, vastly expanding the color range. Colors such as the greens of trees and cyan shades of oceans that were previously hard to produce are now included, enabling the reproduction of images with deeper, more vivid hues. *Images compared are for reference only



Color management function for easy fine-tuning of colors

The projector is equipped with a new color management function for independent color R (red), G (green), B (blue), C (cyan), M (magenta) and Y (yellow) adjustment of "Hue," "Saturation" and "Brightness." It is also possible to adjust a specific color; when a color is selected only the objects of that color are shown in color (others are in monotone), making it possible to tune colors to preference more easily.

Screen Size and Projection Distances

Screen size			Distance from Screen		Hd	Movable V position from default position		
Diagonal size	Width	Height	Shortest (Wide)	Longest (Tele)		Down (-Hd)	0 (Hd)	Up (+Hd)
cm	cm	cm	m	m	cm	cm	cm	cm
50	111	62	1.5	2.3	21	12 ← 21 → 29		
60	133	75	1.8	2.7	25	14 ← 25 → 34		
70	155	87	2.1	3.2	29	17 ← 29 → 40		
80	177	100	2.4	3.6	34	19 ← 34 → 46		
90	199	112	2.7	4.1	38	22 ← 38 → 52		
100	221	125	3.1	4.6	42	24 ← 42 → 57		
110	244	137	3.4	5.0	46	26 ← 46 → 63		
120	266	149	3.7	5.5	50	29 ← 50 → 69		
150	332	187	4.6	6.9	63	36 ← 63 → 86		
200	443	249	6.2	9.2	84	48 ← 84 → 115		
250	553	311	7.7	–	105	60 ← 105 → 144		
300	664	374	9.3	–	126	72 ← 126 → 172		

Down	0	Up
cm		cm
–9	← 0 →	8
–11	← 0 →	9
–12	← 0 →	11
–14	← 0 →	12
–16	← 0 →	14
–18	← 0 →	16
–20	← 0 →	17
–21	← 0 →	19
–27	← 0 →	23
–36	← 0 →	31
–45	← 0 →	39
–54	← 0 →	47