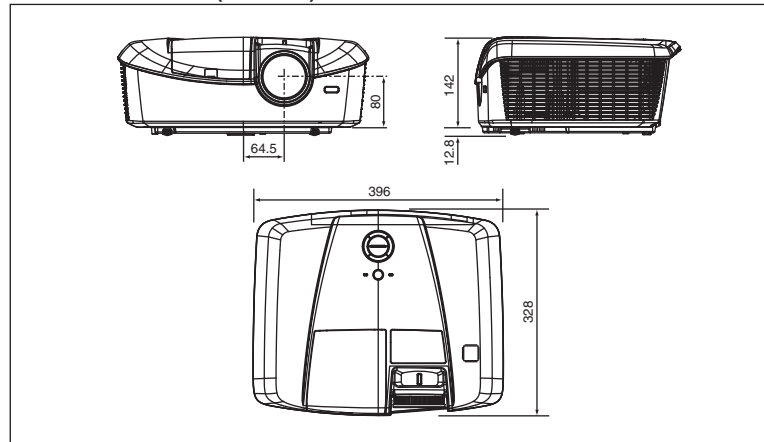


**Specifications**

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	
Optical specs	Array	Stripe pattern	
	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*3		
Projection screen size (inches)	50-300		
Images	Brightness*1*2	1500 lm (Max.)	
	Contrast ratio*1	150,000:1 (when the Iris is closed)	
	Resolution	PC input	VGA 640x480 - UXGA 1600x1200, 1920x1080
	Scan frequency	Horizontal	15-85kHz
Vertical		24-85Hz	
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*4	
	Power source voltage	AC100-240V 50/60Hz	
	Power consumption	380W (at waiting 0.5W)	
	Weight	12.6 lbs	
	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: Compliant with ISO21118-2005 \*3: Can be set to dedicated 24P signal when displaying 2D images. \*4: 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.

**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 can cause uneasiness.
- 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. Do not watch continuously for extended periods of time.
- The viewing of 3D images is not recommended for children under the age of 5.
- For maximum 3D effect, 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 not functioning properly.
- When viewing 3D images, it is recommended to sit at a viewing distance at least three times the effective screen size.

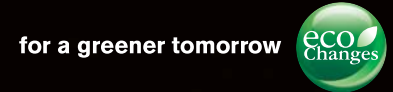
**Options**

3D Emitter		EY-3D-EMT2H
Replacement lamp		VLT-HC7800LP



*Changes for the Better*

HOME THEATER PROJECTOR



Beautiful Refined 3D Screening  
in the Privacy of Your Home



New  
HC7900DW



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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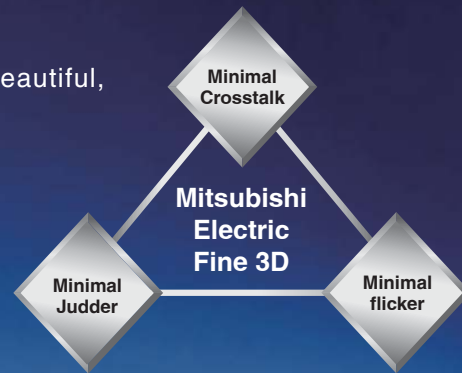
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CANADA, INC.

Display & Imaging Solutions Division  
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# Experience dynamic movie theater-like action, right here...

The HC7900DW home theater projector utilizes Mitsubishi Electric's 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



### Enjoy viewing with "universal" 3D glasses currently 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, producing 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).

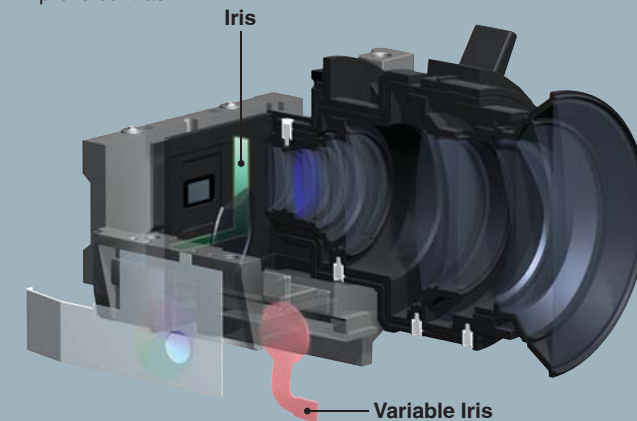


Image showing "white flicker" effect

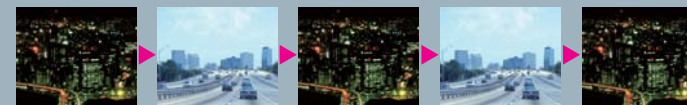
## The Latest Image Technologies Brought Together for Cinema-like Quality in 2D or 3D

### New optical engine with comprehensively improved contrast and light leakage producing high contrast of 150,000:1

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.

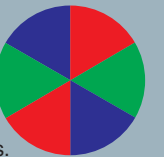


#### New Variable Iris



### 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 colorwheel-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.

Interpolation while maintaining the 24-frame film-like texture.

**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)

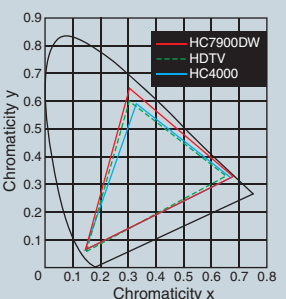
Compared to more commonly used glass lenses, this projector is equipped with a high-performance extra-low-dispersion (ED) lens system comprised of a total of 13 lenses in four groups. Chromatic aberration is minimized to the fullest and image resolution is improved throughout, including the periphery.



### 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 possible, enabling the reproduction of images with deeper, more vivid hues.

\*Images compared are for reference only



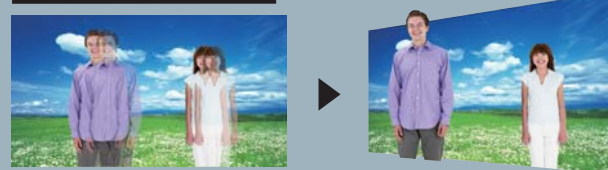
### Color management function for easy fine-tuning of colors

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.

## 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.

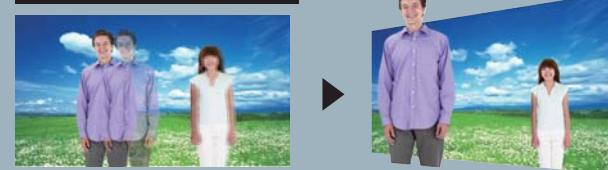
#### Common conversion format



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

#### Screen Size and Projection Distances

Diagonal size (in)	Screen size		Distance from Screen		Hd (in)	Movable V position from default position					
	Width (in)	Height (in)	Shortest (Wide) (in)	Longest (Tele) (in)		Down (-Hd) (cm)	0 (Hd) (cm)	Up (+Hd) (cm)	Down (cm)	0 (cm)	Up (cm)
50	44	25	59	89	8.2	12	← 21	→ 29	-9	← 0	→ 8
60	52	29	71	107	10	14	← 25	→ 34	-11	← 0	→ 9
70	64	34	84	125	12	17	← 29	→ 40	-12	← 0	→ 11
80	70	39	96	144	13	19	← 34	→ 46	-14	← 0	→ 12
90	78	44	108	162	15	22	← 38	→ 52	-16	← 0	→ 14
100	87	49	120	180	16	24	← 42	→ 57	-18	← 0	→ 16
110	96	54	133	198	18	26	← 46	→ 63	-20	← 0	→ 17
120	105	59	145	216	20	29	← 50	→ 69	-21	← 0	→ 19
150	131	74	182	271	25	36	← 63	→ 86	-27	← 0	→ 23
200	174	98	243	362	33	48	← 84	→ 115	-36	← 0	→ 31
250	218	123	304	-	41	60	← 105	→ 144	-45	← 0	→ 39
300	261	147	365	-	49	72	← 126	→ 172	-54	← 0	→ 47

