



# MITSUBISHI ELECTRIC

## MULTIMEDIA DATA/VIDEO PROJECTORS

### Specifications

Model		HC6800	
Projection system		Transmissive liquid crystal system	
Panel specs	Panel size	0.74type x3, Aspect ratio 16:9, D7 (with Micro Lens)	
	Number of pixels	1920x1080 (2,073,600 pixels)	
	Drive system	3 primary color liquid crystal shutter system	
Optical specs	Array	Stripe pattern	
	Zoom / focus operation	Zoom ratio 1.6:1 (powered)	
	Throw ratio	1.42 - 2.26	
	Projection lens	f=23.5mm - 37.6mm	
	Off axis	(V) 5: -1 - 5: 1 (+/-75%), (H) Screen Width +/-5% (with Variable H+V Powered Lens Shift)	
Light source lamp		170W	
	Optical system	Mirror color separation / prism synthesis system	
Projection screen size		Auto-iris	
		50"-300"	
Images	Brightness (lm)	1500 (Max), 1300 (typ)	
	Contrast ratio	30,000:1 (w/ auto-iris operation) typ.	
	Resolution	PC input VGA 640x480 — SXGA 1280x1024, UXGA 1600x1200 Compressed	
	Scan frequency	Horizontal (kHz) 15-100kHz Vertical (Hz) 50-120hz	
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	
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 (D-Sub 9 pin)		
Output	Trigger terminal	1 terminal (Stereo mini jack (ø3.5mm))	
	Digital keystone	Vertical ±15steps	
Functions	Fan noise	20dBA (at low mode)	
	Power source voltage	AC100V 50/60Hz	
	Power consumption	250W (at standby 7W)	
	Weight	16.5lbs	
Other	Main unit dimensions	WxDxH 427x440x159mm / 16.8"x17.3"x6.3" (excluding height adjustment)	
	Supplied accessories	Power source cord (2.9m), Remote control, AA batteries (x2), RGB signal cable, RS-232C cable, Lens cap, Lamp replacement tray	
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.

### Projection distance

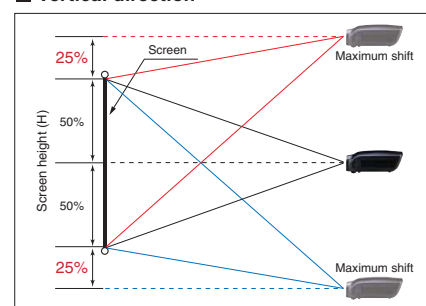
Screen size (16:9)				Projection distance				Up-down lens shift		Right-Left lens shift	
Diagonal	W (width)	H (height)		Max Zoom	Min Zoom	Down	Up	Left	Right		
50	127	43.7	24.4	59	98	19 ← 0 → 19	2.4 ← 0 → 2.4				
60	152	52.4	29.5	71	118	22 ← 0 → 22	2.8 ← 0 → 2.8				
70	178	61.0	34.3	87	138	26 ← 0 → 26	3.1 ← 0 → 3.1				
80	203	69.7	39.4	98	158	30 ← 0 → 30	3.5 ← 0 → 3.5				
90	229	78.3	44.1	110	177	33 ← 0 → 33	3.9 ← 0 → 3.9				
100	254	87.0	49.2	122	197	37 ← 0 → 37	4.3 ← 0 → 4.3				
110	279	96.1	53.9	134	217	41 ← 0 → 41	4.7 ← 0 → 4.7				
120	305	104.7	58.7	150	236	44 ← 0 → 44	5.1 ← 0 → 5.1				
130	330	113.4	63.8	161	256	48 ← 0 → 48	5.5 ← 0 → 5.5				
140	356	122.0	68.5	173	276	52 ← 0 → 52	5.9 ← 0 → 5.9				
150	381	130.7	73.6	185	299	55 ← 0 → 55	6.7 ← 0 → 6.7				
200	508	174.4	98.0	248	398	74 ← 0 → 74	8.7 ← 0 → 8.7				
250	635	217.7	122.4	311	496	92 ← 0 → 92	11 ← 0 → 11				
300	762	261.4	147.2	374	598	110 ← 0 → 110	13 ← 0 → 13				

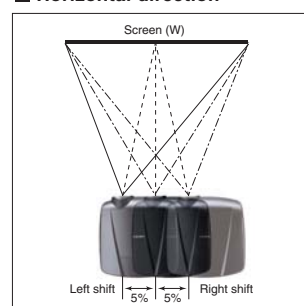
Screen size (4:3)				Projection image size (16:9)				Projection distance				Up-down lens shift		Right-Left lens shift	
Diagonal	W (width)	H (height)		Diagonal	W (width)	H (height)	Black zone	Max Zoom	Min Zoom	Down	Up	Left	Right		
50	127	40.2	29.9	46.1	40.2	22.4	3.9	55	91	16.9 ← 0 → 16.9	1.9 ← 0 → 1.9				
60	152	48.0	35.8	55.1	48.0	27.2	4.3	67	106	20.0 ← 0 → 20.0	2.4 ← 0 → 2.4				
70	178	55.9	42.1	64.2	55.9	31.5	5.1	79	126	23.6 ← 0 → 23.6	2.8 ← 0 → 2.8				
80	203	64.2	48.0	73.6	64.2	35.8	5.9	91	148	27.2 ← 0 → 27.2	3.1 ← 0 → 3.1				
90	229	72.0	53.9	82.7	72.0	40.6	6.7	102	161	30.3 ← 0 → 30.3	3.5 ← 0 → 3.5				
100	254	79.9	59.8	91.7	79.9	44.9	7.5	114	181	33.9 ← 0 → 33.9	3.9 ← 0 → 3.9				
110	279	88.2	66.1	101	88.2	49.6	8.3	122	201	37.0 ← 0 → 37.0	4.3 ← 0 → 4.3				
120	305	96.1	72.0	110	96.1	53.9	9.1	134	217	40.6 ← 0 → 40.6	4.7 ← 0 → 4.7				
130	330	104	77.9	119	104	58.7	9.8	146	236	43.7 ← 0 → 43.7	5.1 ← 0 → 5.1				
140	356	112	83.9	128	112	62.9	10.6	158	256	47.2 ← 0 → 47.2	5.5 ← 0 → 5.5				
150	381	120	90.2	138	120	67.3	11.4	169	272	50.8 ← 0 → 50.8	5.9 ← 0 → 5.9				
200	508	160	120	183	160	90.2	14.9	228	366	67.3 ← 0 → 67.3	7.9 ← 0 → 7.9				
250	635	200	150	230	200	113	18.9	284	457	84.3 ← 0 → 84.3	9.8 ← 0 → 9.8				
300	762	240	180	275	240	135	22.4	343	547	101 ← 0 → 101	12 ← 0 → 12				

\*The above figures are approximate and may be slightly different from the actual measurements.

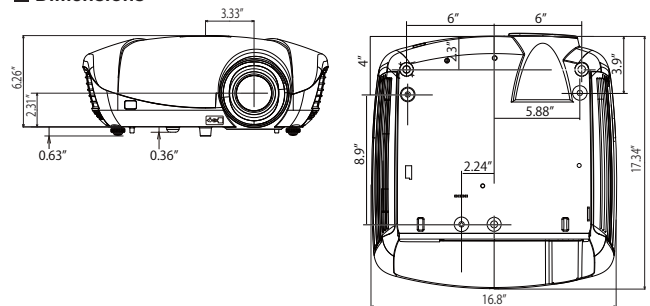
### Vertical direction



### Horizontal direction




### Dimensions



**NEW HC6800**

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Presentation Products Division  
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# Lights and darks have never been more distinctive. Contrasts so impressive they will take your breath away!

Finally, the 1080P high-definition projector you've been waiting for.

Prepare to witness beautiful, colorful imagery with well-defined blacks and lustrously bright whites.

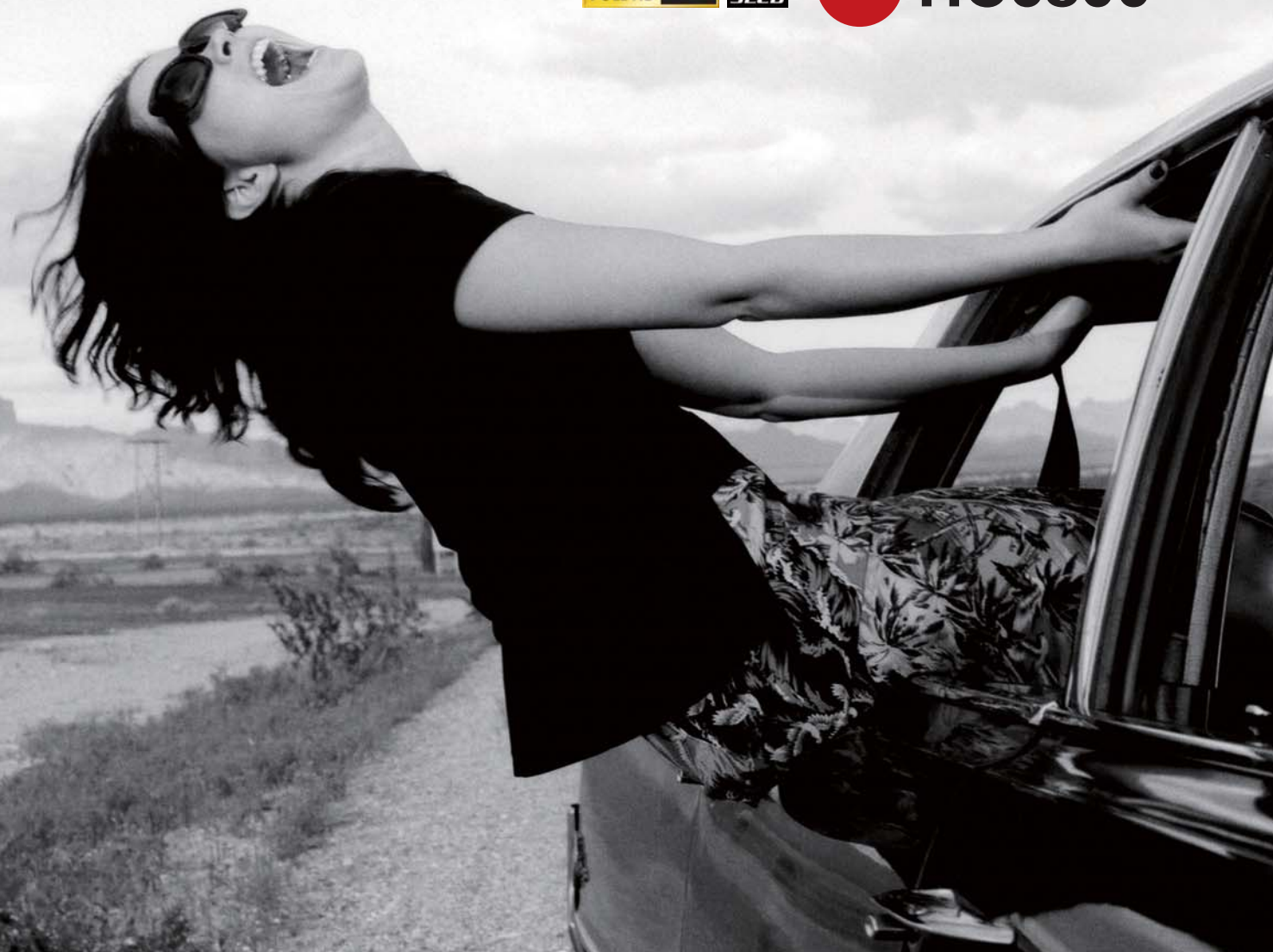
The secret is inside Mitsubishi Electric's advanced imaging software technology—where the issue of producing stark blacks alongside brilliant whites has been solved.

Ideal for enjoying movies in vivid color, it is a cinema-like experience in the comfort of your own home.

Images so powerful—they will take your breath away.



京都 FULL HD 1080 3LCD NEW HC6800



## Majestic Large-screen Reproduction Regardless of the Image Source

Strikingly clear, bright images.

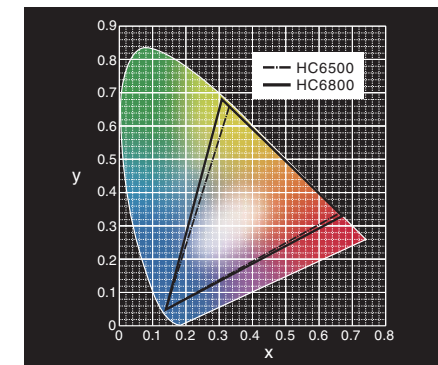
### A high 1500lm for clear reproduction even in brightly lit rooms

The aperture ratio of the HC6800 has increased 20% compared to conventional LCD panels, improving the light transmittance ratio. This reproduces clearer, more vivid images by concealing the grid between pixels. Even in the relative brightness of a living room with the curtains drawn—high-definition video, Blu-ray media or other sources can be enjoyed to the fullest. A dedicated dark room is no longer necessary to experience the best in home theater.

Accurate color reproduction true to the image source.

### Wide-range cinema color filter for precise color reproduction

Even when using Cinema mode (D65), a bright 910lm achieved. An expanded color reproduction range has enabled the adjustment of color balance spanning the green and cyan spectrums—enabling image colors to be reproduced with greater depth and brightness. DVD playback has also been improved



DVD playback upconversion

### "Reon-VX IC – A product of IDT, Inc. (Silicon Optix)

Reon-VX is the ideal device for converting quality high-definition and DVD into 1,920 x 1,080 pixel images. Thanks to a 10-bit calculation at the core of the high-precision I/P conversion function—signals from every type of video source, from digital television broadcasts to pre-recorded videos, are progressively played back with high picture quality.



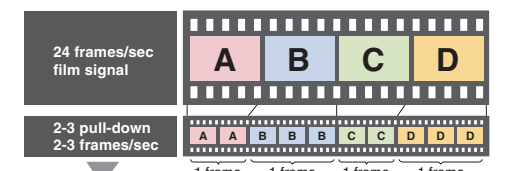
Enjoy movies the way they were filmed

### Able to support a native 24P signal

Capable of handling an output of 48P, twice the speed of cinema film (24 frames per second), precise timing ensure true-to-life reproduction of Blu-ray films with original, smooth movement.

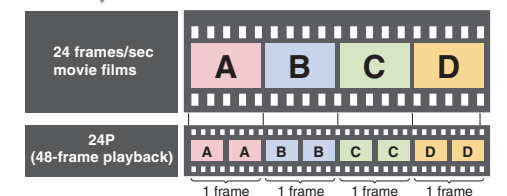
#### 2-3 Pull-down

When converting 24 frames per second into 60 frames per second, lining up the second and third frames in sequence, creates a surplus third B frame—which deteriorates smooth frame transitions.



#### 24P direct output

With 24P direct output, the 24 frames per second is converted to a full 48 frames per second. This allows sequential matching of two frames at a time, thereby enabling true film reproduction and its original smoothness.



## Expanded Adjustment Options for Images More Beautiful Than Ever Before

Sharp, dynamic images

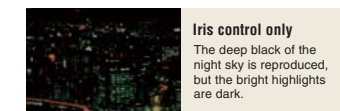
### Diamond Black Iris - Mitsubishi Electric original

This artificial iris automatically controls the projected light quantity and analyzes brightness every 1/60 of a second. When scenes change repeatedly between light and dark, blacks can be toned down using instantaneous tracking. Moreover, the HC6800 is equipped with our "Original Contrast Control" technology, allowing the peak expression of white while simultaneously maintaining black gradation performance.

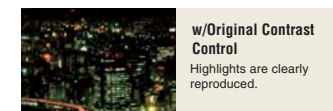
Previous Auto-iris (HC5000)



New Auto-iris (HC6800)



**Iris control only**  
The deep black of the night sky is reproduced, but the bright highlights are dark.

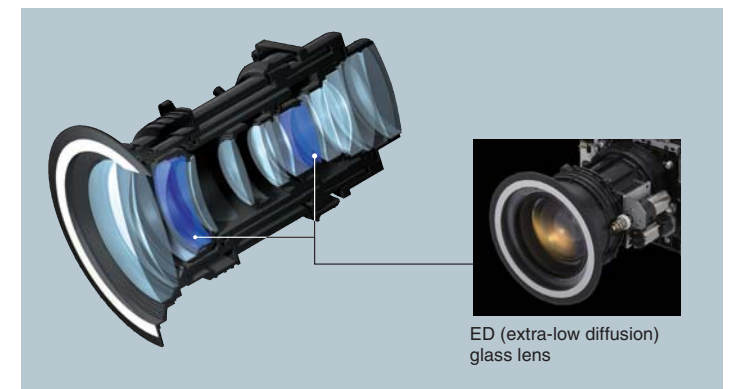


**w/Original Contrast Control**  
Highlights are clearly reproduced.

For the enjoyment of full high-definition

### High-performance extra-low dispersion (ED) lens

The 17-piece, 14-cluster ED lens boasts higher performance than the standard regular glass lens. Resolution is increased another level to better define image peripheries.



ED (extra-low dispersion) glass lens

## Performance for "comfort appreciation". Your imagination is the limit.

### Quiet sound design allows movies to be enjoyed in original sound quality

The cooling duct design has been modified and a large fan with small-sized motor installed—resulting in an extremely quiet operating 20dBA operation. With the noise of the cooling fan silenced, the true sounds of movies can be clearly heard.

### "Deep Color" compatible – Increase image depth

Equipped with two HDMI Ver1.3 input ports—8, 10 and 12bit native transmissions are all possible. The rich gradation and high contrast of Deep Color have truly been achieved.



### Greater flexibility for room installation

When used with a 100" screen (16:9), the equipped 1.6x ultrashort-throw lens offers projection from as close as 122"–197", making a room space of approximately 33 feet<sup>2</sup> more than sufficient. Additionally, the electric shift lens can adjust the image both horizontally and vertically, providing greater freedom for projector set-up.

### Appreciate the grandeur with wide cinema scope size

A fast-growing trend in the world of home theaters is viewing in cinema scope. When equipped with an anamorphic lens (sold separately), this convenient function enables easy switching between "Normal" and "Cinema Scope" viewing modes.