MITSUBISHI ELECTRIC

MITSUBISHI HOME THEATER PROJECTOR

Deep blacks… Brilliant whites…
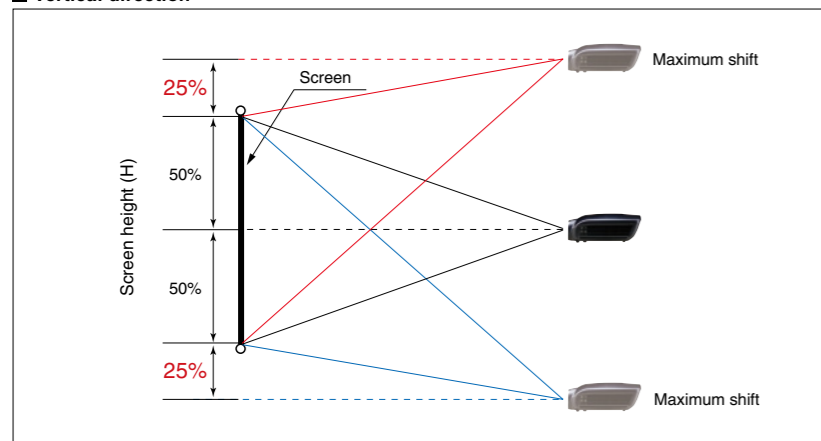Both simultaneously at levels never believed possible

NEW HC6800

■ Specifications

Model			HC6800
Projection system			Transmissive liquid crystal system
Panel specs	Panel size		0.74type x3 Aspect ratio 16:9 D7
	Number of pixels		1920x1080
	Drive system		3 primary color liquid crystal shutter system
	Array		Stripe pattern
Optical specs	Zoom / focus operation		1.6-power zoom / motorized
	Throw ratio		Motorized up-down 75% / right-left 5%
	f (mm)		23.5-37.6
	Light source lamp		170W
	Optical system		Mirror color separation / prism synthesis system
	Iris		Auto-iris
Projection screen size (inches)			50-300
Images	Brightness (lm)		1500 (Max), 1300 (typ)
	Contrast ratio		30000:1 (auto-iris) typ.
	Resolution	PC input	VGA 640x480 - UXGA 1600x1200
	Scan frequency	Horizontal (kHz)	15-100
		Vertical (Hz)	50-120
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		PC input	Mini D-Sub 15 pin	1 terminal
	Video	HDMI input	HDMI terminal	2 terminals
		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 (D-Sub 9 pin)
Output	Trigger terminal		1 terminal
Functions	Digital keystone		Vertical ±15steps
	Fan noise		20dBA (at low mode)
	Power source voltage		AC100V 50/60Hz
	Power consumption (W)		250 (at waiting 7W)
	Weight (kg / lbs)		7.5 / 16.5
	Main unit dimensions	WxDxH	427x440x159mm / 16.8"x17.3"x6.3" (excluding height adjustment)
Other	Supplied accessories		Power source cord (2.9m), Remote control, AA batteries (x2), RGB signal cable, RS-232C cable, Lens cap, Lamp replacement tray

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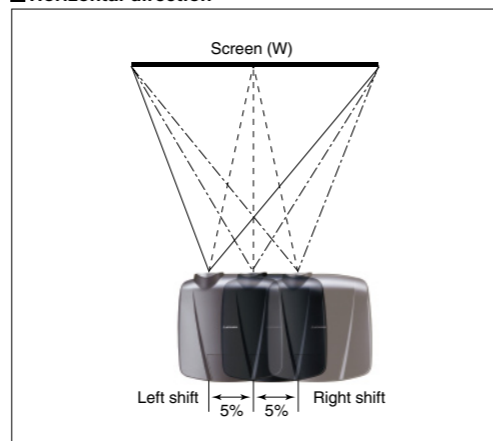
■ Projection distance

Screen size (16:9)

Diagonal		W (width)	H (height)	Projection distance		Up-down lens shift			Right-Left lens shift		
				Max Zoom	Min Zoom	Down		Up	Left		Right
inch	cm	cm	cm	m	m	cm		cm	cm		cm
50	127	111	62	1.5	2.5	47	← 0 →	47	6	← 0 →	6
60	152	133	75	1.8	3.0	56	← 0 →	56	7	← 0 →	7
70	178	155	87	2.2	3.5	65	← 0 →	65	8	← 0 →	8
80	203	177	100	2.5	4.0	75	← 0 →	75	9	← 0 →	9
90	229	199	112	2.8	4.5	84	← 0 →	84	10	← 0 →	10
100	254	221	125	3.1	5.0	93	← 0 →	93	11	← 0 →	11
110	279	244	137	3.4	5.5	103	← 0 →	103	12	← 0 →	12
120	305	266	149	3.8	6.0	112	← 0 →	112	13	← 0 →	13
130	330	288	162	4.1	6.5	121	← 0 →	121	14	← 0 →	14
140	356	310	174	4.4	7.0	131	← 0 →	131	15	← 0 →	15
150	381	332	187	4.7	7.6	140	← 0 →	140	17	← 0 →	17
200	508	443	249	6.3	10.1	187	← 0 →	187	22	← 0 →	22
250	635	553	311	7.9	12.6	233	← 0 →	233	28	← 0 →	28
300	762	664	374	9.5	15.2	280	← 0 →	280	33	← 0 →	33

Screen size (4:3)

Diagonal		W (width)	H (height)	Projection image size (16:9)				Projection distance		Up-down lens shift			Right-Left lens shift		
				Diagonal	W (width)	H (height)	Black zone	Max Zoom	Min Zoom	Down		Up	Left		Right
inch	cm	cm	cm	cm	cm	cm	cm	m	m	cm		cm	cm		cm
50	127	102	76	117	102	57	10	1.4	2.3	43	← 0 →	43	5	← 0 →	5
60	152	122	91	140	122	69	11	1.7	2.7	51	← 0 →	51	6	← 0 →	6
70	178	142	107	163	142	80	13	2.0	3.2	60	← 0 →	60	7	← 0 →	7
80	203	163	122	187	163	91	15	2.3	3.7	69	← 0 →	69	8	← 0 →	8
90	229	183	137	210	183	103	17	2.6	4.1	77	← 0 →	77	9	← 0 →	9
100	254	203	152	233	203	114	19	2.9	4.6	86	← 0 →	86	10	← 0 →	10
110	279	224	168	256	224	126	21	3.1	5.1	94	← 0 →	94	11	← 0 →	11
120	305	244	183	280	244	137	23	3.4	5.5	103	← 0 →	103	12	← 0 →	12
130	330	264	198	303	264	149	25	3.7	6.0	111	← 0 →	111	13	← 0 →	13
140	356	284	213	326	284	160	27	4.0	6.5	120	← 0 →	120	14	← 0 →	14
150	381	305	229	350	305	171	29	4.3	6.9	129	← 0 →	129	15	← 0 →	15
200	508	406	305	466	406	229	38	5.8	9.3	171	← 0 →	171	20	← 0 →	20
250	635	508	381	583	508	286	48	7.2	11.6	214	← 0 →	214	25	← 0 →	25
300	762	610	457	699	610	343	57	8.7	13.9	257	← 0 →	257	30	← 0 →	30

■ Vertical direction

Maximum shift
Screen
25%
50%
Screen height (H)
50%
25%
Maximum shift

■ Horizontal direction

Screen (W)
Left shift 5% 5% Right shift

■ MITSUBISHI ELECTRIC EUROPE (BENELUX Office)

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To find out more about HC6800 and our projectors, visit us at

www.MitsubishiElectric.nl

Lights and darks has never more distinctive.
Contrasts so impressive they take your breath away!

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

Beautiful imagery reproduced with well-defined blacks and lustrously bright whites that make the full color spectrum standout.

The secret is inside Mitsubishi Electric's advanced imaging software technologies, where the paradox of enabling opposites to be achieved simultaneously has been resolved.

Ideal for enjoying movies in vivid color, it's cinema theater-like reproduction in the comfort of your own home.

Excitement so powerful, it'll take your breath away.

NEW HC6800

Majestic Large-screen Reproduction Regardless of the Image Source

Strikingly clear images increase the excitement.

A high 1300lm for clear reproduction even in brightly lit rooms

The aperture ratio of the HC6800 is increased 20% compared to conventional LCD panels, improving the light transmittance ratio. This works to make the reproduction of even clearer, more vivid images possible by concealing the grid between pixels.
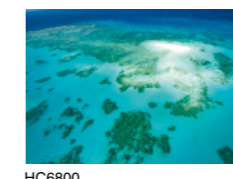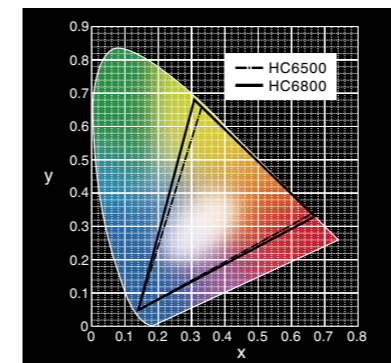Even in the relative brightness of a living room with the curtains closed, high-definition images played back from terrestrial digital broadcasts, Blu-ray media or other sources can be enjoyed to the fullest.

High-quality reproduction of colors true to the image source.

Wide-range cinema color filter for precise reproduction of colors

Even when using Cinema mode (D65), a bright 910lm is maintained. An expansive color reproduction range that enables the adjustment of color balance spanning the green and cyan spectrums enables image colors to be reproduced with greater depth and brightness. Even improvements in DVD contents will be noticed.

- - - HC6500
— HC6800

Current HC6500

HC6800

Even when playing DVDs with high picture quality

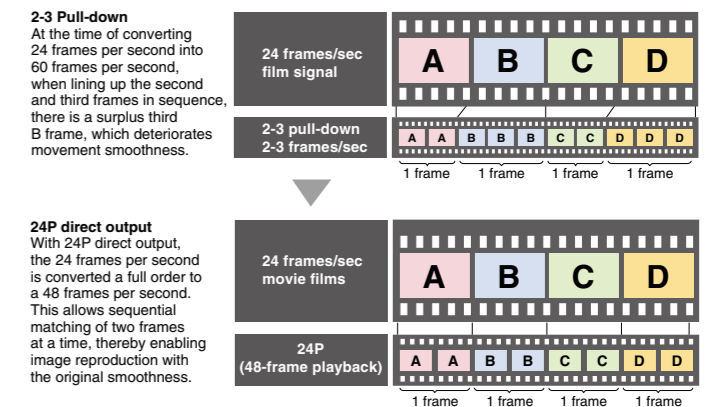#### "Reon-VX IC – A product of IDT, Inc. (Silicon Optix)

The ideal device for converting quality high-definition and DVD into 1,920 x 1,080 pixel images. Additionally, owing to a 10-bit calculation at the core of the high-precision I/P conversion function, signals from every type of package software, from terrestrial and satellite digital broadcasts to video-recorded sources, are progressively played back with high picture quality.

Enjoy the true expression of movie images

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.

24 frames/sec film signal: A B C D

2-3 pull-down 2-3 frames/sec: A A B B B C C D D D
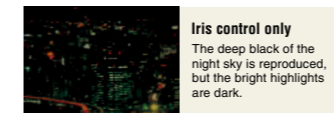1 frame | 1 frame | 1 frame | 1 frame

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.

24 frames/sec movie films: A B C D

24P (48-frame playback): A A B B C C D D
1 frame | 1 frame | 1 frame | 1 frame

Diverse Adjustment Functions 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 signals in units of 1/60 per 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
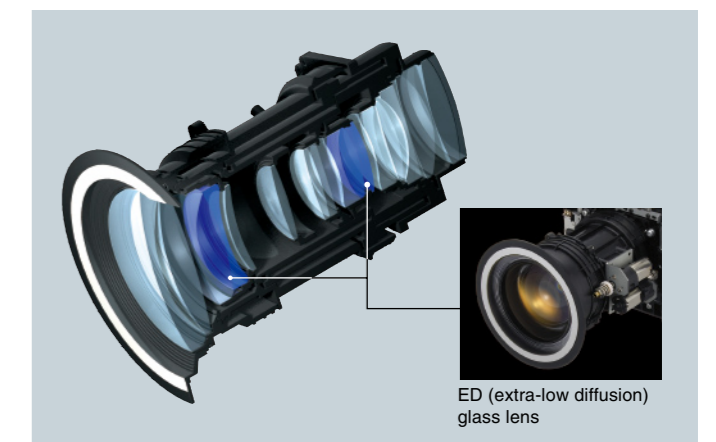The deep black of the night sky is reproduced, but the bright highlights are dark.

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 diffusion) 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 changed and a large fan with small-sized motor installed, realizing extremely quiet 20dBA operation performance. Wit the noise of the cooling fan silenced, the true sounds of movies can be further enjoyed.

"Deep Color" compatible – Increase image depth
Equipped with HDMI Ver1.3 and two input ports. In addition to 8bit, 10 and 12bit transmission are also possible. Compatible with Deep Color, rich gradation and high contrast have been realized.

High selection flexibility for room installation
Equipped with an 1.6x ultrashort-throw lens, when used with a 100-inch screen (16:9), projection from as close as 3.1~5m is possible, making a room floor space of approximately 10m² 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 the anamorphic lens (sold separately), this convenient function enables easy switching between "Normal" and "Cinema Scope" viewing modes.

HDMI
HIGH DEFINITION MULTIMEDIA INTERFACE