



**mitsubishi  
ELECTRIC**

MITSUBISHI HOME THEATER PROJECTOR

*Changes for the Better*

The Finest in Black Levels Inspired  
by Mitsubishi Innovation



**NEW** HC6000

Every individual detail displayed with the utmost clarity...

Flawless reproduction of black, white

and all colour levels



The Mitsubishi HC6000 boasts incredible black reproduction that is a pure expression of excellence.

Enjoy breathtakingly vivid images with stunning colour saturation and depth, thanks to the 15,000:1 contrast ratio.

With automatic contrast control of the HC6000, deep blacks harmonise with peak whites flawlessly, so that quick shifts from a bright scene to a low-light or even night scene come with instant dynamic richness in each frame.

The HC6000's visual quality is further realised with our newly perfected auto iris and lens aperture algorithms.

Bring one home today and enjoy a new dimension of excellence in high definition.

**Auto Iris and Lens Aperture Algorithm at Work**

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# HC6000





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## Our newly developed auto-iris algorithm Changing brightness intensity in speeds up to 1/60th of a second...

The HC6000 offers a swift auto-iris control algorithm that is often found in higher priced models. It automatically controls the light intensity at pixel level of each screen displayed with high precision and speed for swift transitions from scene to scene. With this breakthrough, the HC6000 has instant tracking capability that tones down dark scenes to the correct black levels even when the scene sequence is set against a backdrop of continuous bright-dark scene changes, faithfully reproducing every scene detail with vivid clarity. Combined with the HC6000's original contrast control, the auto-iris feature always ensures you get the richest blacks, the brightest whites, and the most vivid colours in between.

### ■ New auto-iris (HC6000)



### ■ Former auto-iris



## An Innovation in Visual Expression With the HC6000 Auto-Iris and Lens Aperture Control

### Designed with an Extra-Low Dispersion Glass Lens, The HC6000 is 1080p High Definition in all its glory.

The Mitsubishi HC6000 is built to the highest optical standards, incorporating a 14-group/17-element glass lens system. By incorporating an extra-low dispersion glass lens, superior performance is achieved over conventional lenses. Chromatic aberration is virtually eliminated, resulting in resolution improvement across the whole picture, all the way to the edges of the displayed image. Finally, the addition of a fixed aperture to the lens of the Mitsubishi HC6000 further enhances the full depth of black levels on screen.

### ■ Lens aperture OFF



### ■ Lens aperture ON



ED (extra-low dispersion) glass lens



# Pushing image quality to the next level

## Unparalleled HQV next generation performance

### ● Reon-VX next-generation high-performance processor

This high-performance chip carries on the legacy of the REALTA made popular by Silicon Optics, known for the visual performance found with their HQV™ (Hollywood Quality Video) brand. It excels behind the scenes as the core of the HC6000's fine visual expression.



**HQV**

### ● High-precision I/P conversion

With 10-bit image processing, I/P (interlace/progressive) conversion in the HC6000 is rendered extremely accurate. Even with video-film mixed sources, the specific materials are detected and processed with top speed and precision. This ensures progressive reproduction of high picture quality over a range of video sources. For terrestrial or satellite digital movies broadcasts, 2-3 pull-down eliminates most jaggies from the screen for the cleanest looking images available. High-precision 3D processing and 24P new generation discs are also supported.

### ● High-performance video scaler

In addition to the high precision I/P conversion, the Reon-VX chip also includes high-precision image scaling (pixel conversion) capabilities. The result is impressive up-conversion of 720 X 480 resolution images to 1920 X 1080.

### ● Reduced chroma up-sampling errors

With the Reon-VX chip, the HC6000 properly compensates for colour data compressed at the production stage of most DVD titles. This results in a more faithful reproduction of high-definition images without colour blur or loss, including subtle contours.

## High Definition (1920x1080) Equipped with a New Generation Liquid Crystal Panel

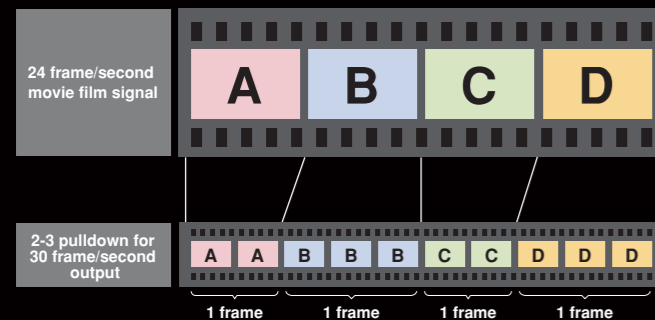
The HC6000 is equipped with a new generation inorganic LCD panel. This new LCD panel generates high definition images with rich blacks and vivid colours. Rated to last approximately 10 times longer than conventional organic film panels, this panel translates to years of viewing enjoyment with colours that stay vibrant and high definition images that retain their sharpness.

## Compatible with 24FPS Blu-ray direct input for accurate image reproduction

The HC6000 is compatible with Blu-ray's 24FPS (Frames Per Second) next generation optical discs. With outputs of 48FPS, which is twice that of movie film (24FPS), duplication of speed, smoothness, as well as detailed textures mirror the original.

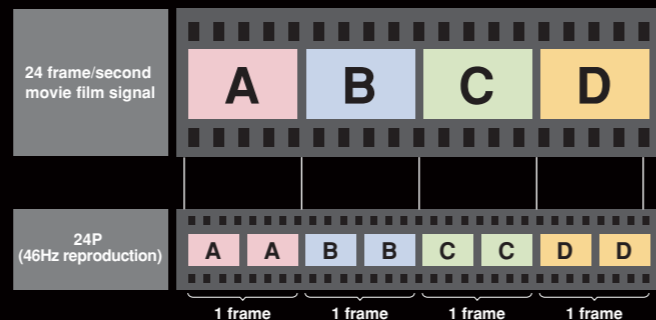
### ■ 2-3 pulldown

When screening images at 60 frames/second, lining up in 2-frame or 3-frame sequences caused a surplus in the third B-frame, detracting from movement smoothness.



### ■ 24P direct output

With the integer multiple of 24 frames/second moved up to 48 frames/second, a sequence is created with groups of two frames lined up. The bottom line is a smooth and fluid reproduction of the original image.



## Equipped with 14-bit digital gamma correction (liquid crystal panel driver)

Our 14-bit gamma correction processing function expands gradation expression power 16-fold over the conventional 10-bit version. This dramatically raises the capacity to express the subtleties of dark images.

## Motorised zoom and focus adjustments with lens shift function greatly enhances ease of set-up

Impressive big-screen images can be enjoyed even in a small room with the 1.6x powered zoom and focus lens. In addition, the motorised lens shift simplifies vertical and horizontal adjustments, providing maximum flexibility wherever you place the HC6000.

Lens shift right-left motor drive



Lens shift up-down motor drive

Focus motor

Zoom motor

## Dual HDMI v1.3

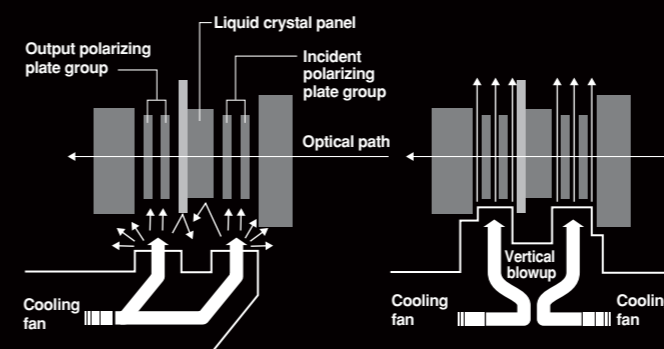
The HC6000 is equipped with dual HDMI v1.3 inputs supporting transmission speeds up to 225MHz for pure high definition enjoyment.



## Whisper quiet noise level - only 19dBA in low mode

The HC6000 is designed with a newly structured cooling duct to improve liquid crystal panel cooling efficiency. It is also equipped with a low-noise fan (large-size Sirocco model) using a downsized motor that secures an ample air inlet for improved air intake efficiency, all of which slash the overall noise level to only 19dBA in low mode.

### ■ Conventional cooling structure ■ New cooling structure



Original new cooling structure for quiet running performance.

# Ease of User Interface Heightens Your Home Theatre Enjoyment

## 3D Micro Surface Structure Air Filter

Augmented on to the air-intake vent of the Mitsubishi HC6000 where minute particles such as dust can easily penetrate is a 3-dimensional micro surface structure air filter equipped with static charges meant to prevent micro particles from flowing past the vent into the system. This especially configured charged film is designed with a solid honeycomb structure, maximising the cooling needs of the HC6000 while providing the optimal dust collection efficiency.



## Side-Loading, Long Life Lamp, Up to 5,000 Hours

Improved temperature control plus Mitsubishi's unique lighting timing extends the useful life of the HC6000 lamp up to 5,000 hours at low mode, thus equating to years of enjoyment. The side-loading feature allows users to leave the projector in place, and with maximum convenience and flexibility, replace the lamp almost effortlessly.



## Illuminated Remote Control Unit

A back light automatically illuminates the buttons on the remote control unit when any button is activated. It allows convenient operation even in darkened rooms or a home theatre environment. The versatile remote control of the HC6000 also allows you to adjust the picture directly for maximum convenience.



## Trigger Terminal

The Mitsubishi HC6000 is built for the most sophisticated home theatres, or for integration with the simplest home entertainment systems. A trigger connector commonly used to control motorised screen retraction is part of the projector, enabling a quick-start and a faster approach to your total home theatre enjoyment.

## Options

Colour domain expansion filter  
CF6000



Replacement lamp  
VLT-HC5000LP



## Specifications

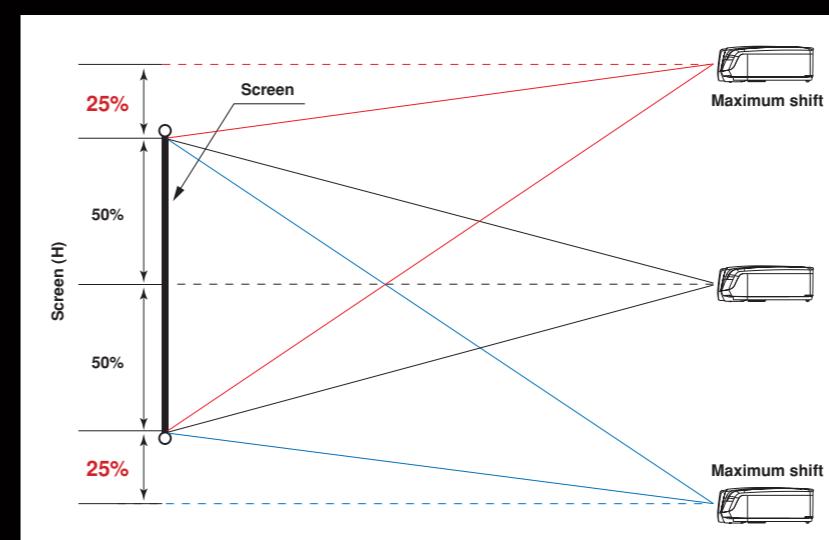
Mode		HC6000		
Projection system		Transmissive liquid crystal system		
Panel specs	Panel size	0.74 type x 3 Aspect ratio 16:9		
	Number of pixels	1920 x 1080		
	Drive system	3 primary colour liquid crystal shutter system		
	Array	Stripe pattern		
Optical specs	Zoom/focus operation	1.6-power zoom/motorised		
	Lens shift	Motorised up-down 75% / right-left 5%		
	f(mm)	23.5-37.6		
	Light source lamp	160W		
	Optical system	Mirror colour separation / prism synthesis system		
	Iris	Auto-iris		
Projection screen size (inches)		50-300		
Images	Brightness (lm)	1000		
	Contrast ratio	15,000:1 (auto-iris)		
	Resolution	PC input VGA* 640 x 480 - UXGA* 1600 x 1200		
	Scan Frequency	Horizontal (kHz) 15-100 Vertical (kHz) 50-120		
Input signal system	Video/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	Analog RGB	Mini D-Sub 15 pin	1 terminal
		Digital RGB	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	Fan noise	19dBA (at low mode)		
	Power source voltage	AC100V 50/60Hz		
	Power consumption (W)	250 (at waiting 7W)		
	Weight (kg / lbs)	5.6 / 12.3		
	Main unit dimensions	Width (mm) x depth (mm) x height (mm) 334 x 352 x 125 (excluding height adjustment)		
Other	Supplied Accessories	Power source cord (2.9m), power source plug adaptor, remote control, AA batteries (x 2), RGB signal cable RS-232C cable, lens cap (attached to projector), lamp replacement tray, air intake filter		

\*: VGA is a registered trademark of IBM Corporation of the United States

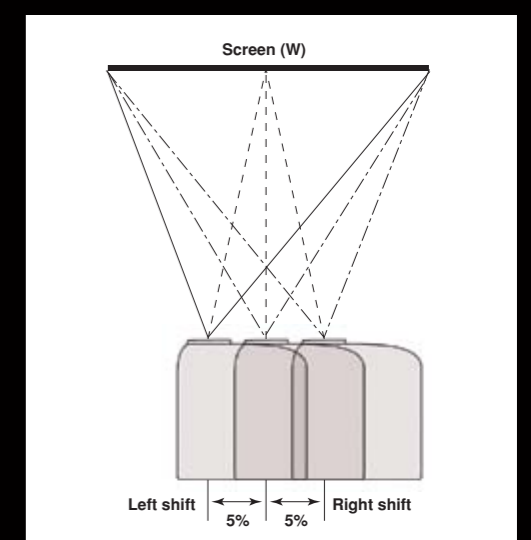
## Projection distance

Screen size (16:9)				Projection distance		Up-down lens shift		Right-left lens shift		Screen size (4:3)				Projection image 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	Diagonal	W (width)	H (height)	Diagonal (type designation)	W (width)	H (height)	Black zone	Max Zoom	Min Zoom	Down	Up	Left	Right						
inch	cm	cm	cm	m	m	cm	cm	cm	cm	inch	cm	cm	cm	cm	cm	cm	cm	cm	cm	cm	cm						
50	127	111	62	1.5	2.5	47	0	47	6	0	6	50	127	102	76	117	102	57	10	1.4	2.3	43	0	43	5	0	5
60	152	133	75	1.8	3.0	56	0	56	7	0	7	60	152	122	91	140	122	69	11	1.7	2.7	51	0	51	6	0	6
70	178	155	87	2.2	3.5	65	0	65	8	0	8	70	178	142	107	163	142	80	13	2.0	3.2	60	0	60	7	0	7
80	203	177	100	2.5	4.0	75	0	75	9	0	9	80	203	163	122	187	163	91	15	2.3	3.7	69	0	69	8	0	8
90	229	199	112	2.8	4.5	84	0	84	10	0	10	90	229	183	137	210	183	103	17	2.6	4.1	77	0	77	9	0	9
100	254	221	125	3.1	5.0	93	0	93	11	0	11	100	254	203	152	233	203	114	19	2.9	4.6	86	0	86	10	0	10
110	279	244	137	3.4	5.5	103	0	103	12	0	12	110	279	224	168	256	224	126	21	3.1	5.1	94	0	94	11	0	11
120	305	266	149	3.8	6.0	112	0	112	13	0	13	120	305	244	183	280	244	137	23	3.4	5.5	103	0	103	12	0	12
130	330	288	162	4.1	6.5	121	0	121	14	0	14	130	330	264	198	303	264	149	25	3.7	6.0	111	0	111	13	0	13
140	356	310	174	4.4	7.0	131	0	131	15	0	15	140	356	284	213	326	284	160	27	4.0	6.5	120	0	120	14	0	14
150	381	332	187	4.7	7.6	140	0	140	17	0	17	150	381	305	229	350	305	171	29	4.3	6.9	129	0	129	15	0	15
200	508	443	249	6.3	10.1	187	0	187	22	0	22	200	508	406	305	466	406	229	38	5.8	9.3	171	0	171	20	0	20
250	635	553	311	7.9	12.6	233	0	233	28	0	28	250	635	508	381	583	508	286	48	7.2	11.6	214	0	214	25	0	25
300	762	664	374	9.5	15.2	280	0	280	33	0	33	300	762	610	457	699	610	343	57	8.7	13.9	257	0	257	30	0	30

## Vertical direction



## Horizontal direction





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*To find out more about HC6000 and our projectors, visit us at*

**[www.MitsubishiElectric.com.au](http://www.MitsubishiElectric.com.au)**