

■ Specifications

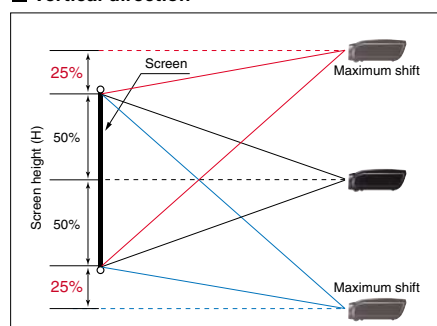
Model name		HC7000		
Projection system		Transmissive liquid crystal system		
Panel specs	Panel size	0.74type x3, Aspect ratio 16:9		
	Number of pixels	1920x1080		
	Drive system	3 primary color liquid-crystal shutter system		
Optical specs	Array	Stripe pattern		
	Zoom / focus operation	1.6-power zoom / motorized		
	Lens shift	Motorized up-down 75% / right-left 5%		
	Throw ratio	1.40-2.26		
	Projection lens	f=23.5-37.6mm / 0.9°-1.5° F2.5-3.1		
	Light source lamp	160W		
Optical system		Mirror color separation / prism synthesis system		
Iris		Auto-iris		
Projection screen size (inches)		50-300		
Images	Brightness (lm)	1000		
	Contrast ratio	72000:1 (Auto-Iris) typ.		
	Resolution	VGA*640x480 - UXGA*1600x1200		
	Scan frequency	Horizontal (kHz)	15-100	
	Vertical (Hz)	24, 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	Video	PC input	Mini D-Sub 15 pin	1 terminal
		HDMI input	HDMI terminal	2 terminals
		Composites	RCA terminal	1 terminal
		S	S-Video terminal	1 terminal
		Components	RCA terminal	1 terminal (component can also be 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	17dBA (at low mode)		
	Power source voltage	AC100V 50/60Hz		
	Power consumption (W)	250 (at waiting 7W)		
	Weight (kg / lbs)	7.5 / 16.5		
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		

*: SVGA, XGA, WXGA, SXGA, UXGA are registered trademarks of IBM Corporation of the United States

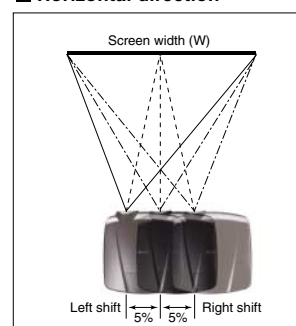
■ Projection distance

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)	Black zone	Max Zoom	Min Zoom	Down	Up	Left	Right	Diagonal	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	m	m	cm	cm	cm	cm	Inch	cm	cm	cm	m	m	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	122	91	140	122	69	11	1.7	2.7	51	← 0 → 51	6	← 0 → 6
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	142	107	163	142	80	13	2.0	3.2	60	← 0 → 60	7	← 0 → 7
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	163	122	187	163	91	15	2.3	3.7	69	← 0 → 69	8	← 0 → 8
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	183	137	210	183	103	17	2.6	4.1	77	← 0 → 77	9	← 0 → 9
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	203	152	233	203	114	19	2.9	4.6	86	← 0 → 86	10	← 0 → 10
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	224	168	256	224	126	21	3.1	5.1	94	← 0 → 94	11	← 0 → 11
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	244	183	280	244	137	23	3.4	5.5	103	← 0 → 103	12	← 0 → 12
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	264	198	303	264	149	25	3.7	6.0	111	← 0 → 111	13	← 0 → 13
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	213	326	284	160	27	4.0	6.5	120	← 0 → 120	14	← 0 → 14
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	350	305	171	29	4.3	6.9	129	← 0 → 129	15	← 0 → 15
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	466	406	229	38	5.8	9.3	171	← 0 → 171	20	← 0 → 20
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	583	508	286	48	7.2	11.6	214	← 0 → 214	25	← 0 → 25
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	699	610	343	57	8.7	13.9	257	← 0 → 257	30	← 0 → 30
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



■ Option

Color domain expansion filter

CF6000



Replacement lamp

VLT-HC7000LP



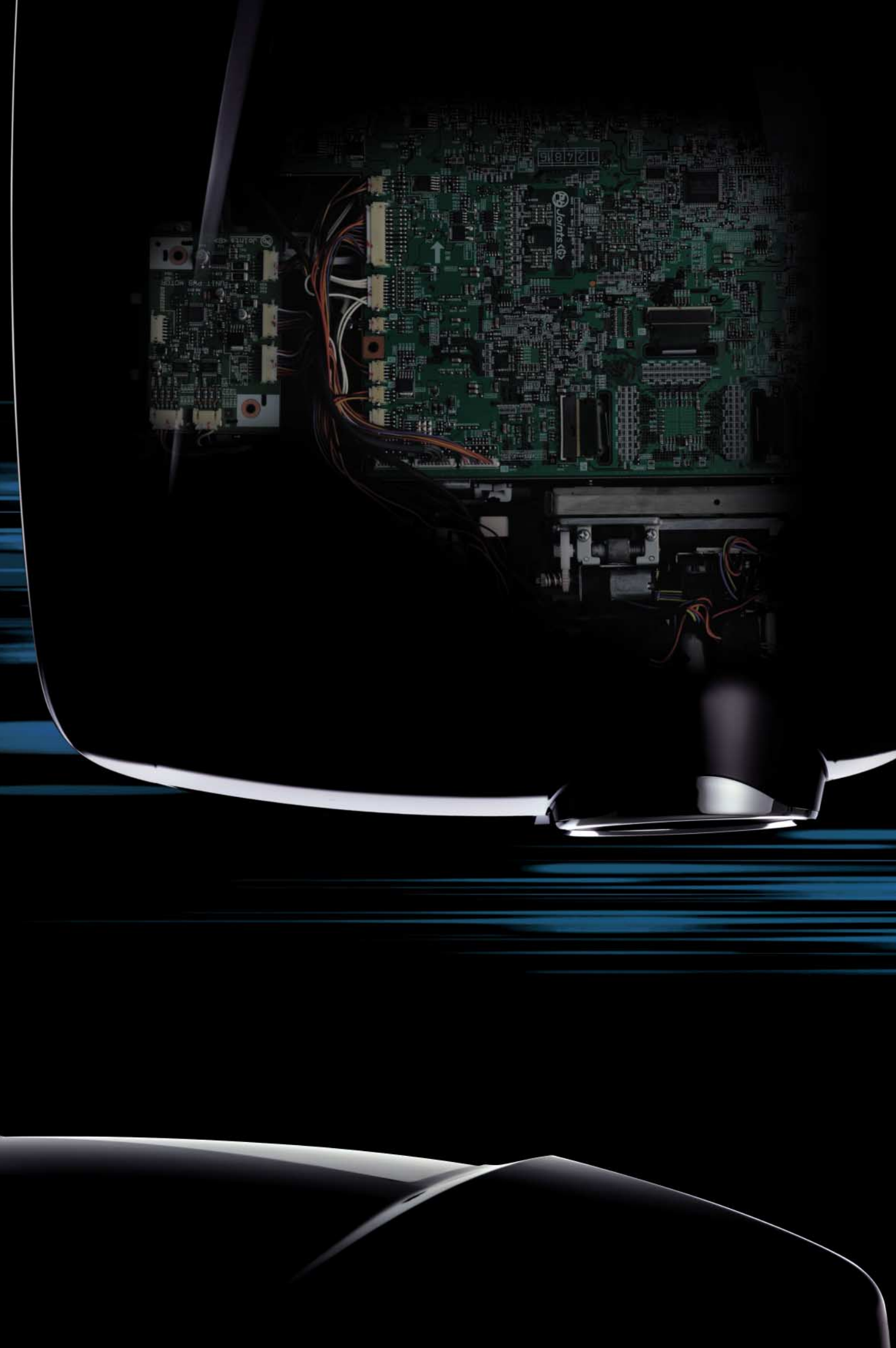
HC7000

The beauty is the performance

Evolutionary in design and functionality,
its alluring presence expresses sheer pleasure in every way and form.
Embodied with cutting-edge full high-definition technologies,
including advanced black color reproduction techniques,
the HC7000 is setting standards for the industry.
Dynamic and intriguing, exciting the senses...
Just wait until you turn it on!



NEW HC7000



Experiencing is Believing The ultimate in black color reproduction.

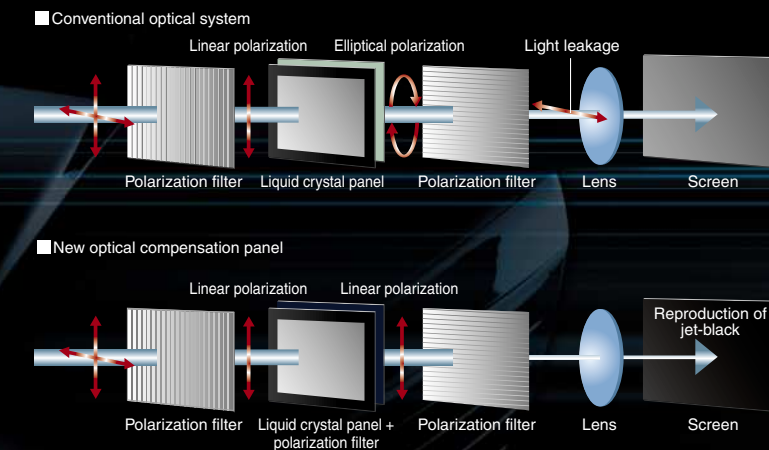
Newly Developed Diamond Black Iris with 1/60-second Iris Control

Evolutionary advancements in the HC7000 include the adoption of Mitsubishi's original Diamond Black Iris technology. The iris section takes on a "diamond-cut" shape that prevents light refraction and realizes an enhanced level of contrast. True blacks are clearly depicted even during sequences of continual bright-dark scene intervals, ensuring the reproduction of every detail with vivid clarity. Combined together with Mitsubishi's innovative contrast control, a perfect balance between blacks, the brightest whites and the full color spectrum in between is achieved.



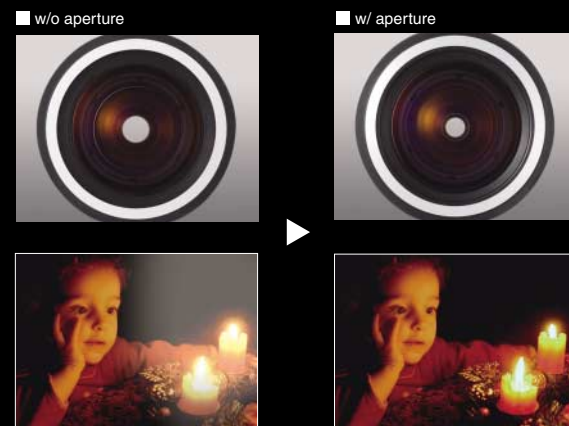
New Optics Compensation Panel Realizes Precise Light Focusing and an Amazing Level of High-contrast Images

Conventional projectors commonly have problems related to loss of light intensity; not so with the HC7000. Degraded polarization results from the offset position of the liquid crystal elements. An optical compensation panel has been newly developed and installed between the liquid crystal panel and polarization filter. This panel corrects the optical projection angle and prevents light leakage, thereby preserving the intensity and realizing new heights in the level of contrast. Together with our high-speed Diamond Black Iris, a high contrast of 72000:1 is achieved for the HC7000.



Extra-low Dispersion Glass Lens for Superior High-definition Resolution

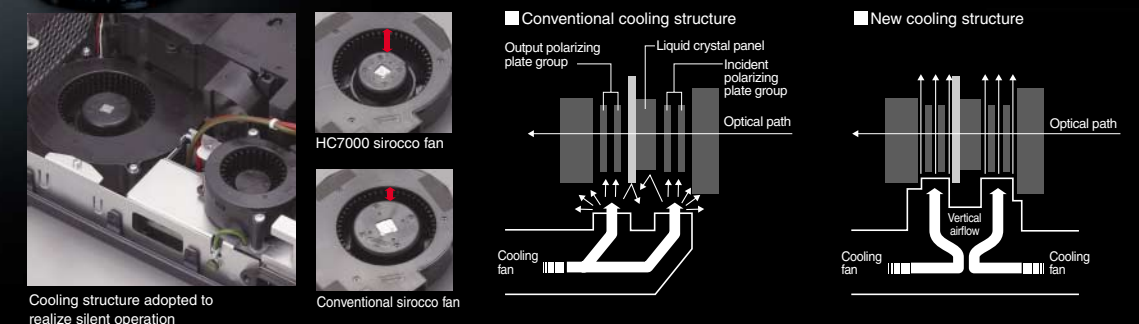
Superior image reproduction is provided using a 17-piece/14 cluster optical system equipped with extra-low dispersion (ED) lenses. Far exceeding the performance of conventional glass lenses, chromatic aberration is virtually eliminated and resolution across the entire screen, including the peripheral edges, is improved. Equipped with a fixed aperture, reproduction of every shade, from grays to the deepest of blacks, is ensured.



Innovative Liquid crystal Panel Cooling System Design Realizes Industry-leading Quiet Operation - 17dBA (at low mode)

A new cooling system is introduced for the liquid crystal panel. It includes a new cooling duct design for the new chassis, a smaller fan motor and a large (low-noise) sirocco fan. As a result, a larger air-intake area is secured and the fan operates at a slower speed, providing improved cooling efficiency owing to the hermetic performance of the new chassis. The end result is industry-leading quiet operation of 17dBA (at low mode). Mitsubishi always aims to produce the quietest projectors in the market.

*as of July 2008, for projectors under 7.5kg (in-house study)



True-to-life Images That Excite the Five Senses

Precision Enhanced with the Addition of Fixed Film/Video Mode to the "Reon-VX" IC from Silicon Optics Inc.

Reon-VX: Next-generation high-performance video processor

Successor to the REALTA IC manufactured by Silicon Optics Inc., renowned for its IC solutions that deliver Hollywood Quality Video (HQV), this high-quality chip is the key to improved image reproduction.

High-precision I/P conversion for all signal sources

Precise and accurate rendering is what you get with Mitsubishi's 10-bit interlace/progressive (I/P) conversion image processing technology. Be it terrestrial digital, broadcast satellite movies, mixed video sources or even commercially packaged media, the end result is always the progressive reproduction of high picture quality.

High-performance video scaler

This ultra-precise image scaling function guarantees superior pixel conversion processing when converting resolution up from 720x480p to 1920x1080p. A unique filtering technique enables adaptive switching to a total of 1024 filter tabs each horizontally and vertically, further contributing to the high-definition picture quality of the images. Our Fixed Film/Video Mode greatly improves conversion precision.

14-bit Digital Gamma Correction

Mitsubishi's original 14-bit gamma correction processing function expands gradation expression power 16-fold over the conventional 10-bit technology. This dramatically raises the projector's ability to reproduce the subtleties in dark images.

Full 10-bit 4:4:4 Signal Processing

HQV noise-reduction (TRNR, MNR/BAR) reduces buzzing and block noise.

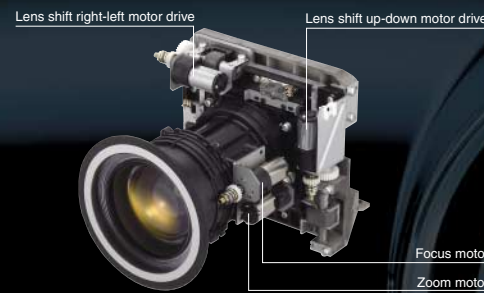
Chromatic up-sampling errors reduced



HQV

1.6X Power Zoom/Focus Dramatically Improves High-definition Resolution and Set-up Ease

Using the 100-type size (16:9) enables not only the adjustment of projection distance from 3.1m to 5.0m, but also brilliant crystal-clear images in tight spots where sufficient distance to the screen cannot be kept. With a vertical lens shift range of 75% and horizontal range of 5%, installation is simple and easy. Two-stage adjustment, quick and fine, has been added to the power drive to enhance usability.



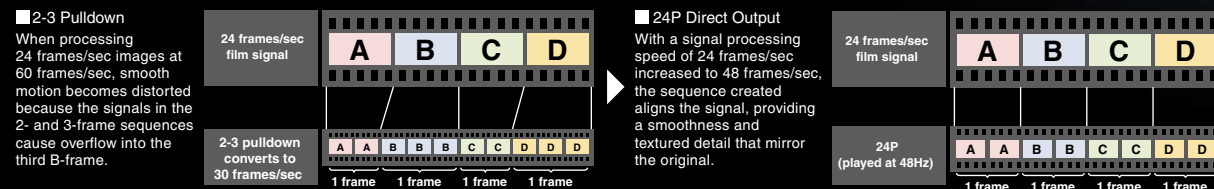
Full High-definition Liquid crystal Panel (1920x1080)



An inorganic liquid crystal panel is incorporated, creating deep rich blacks and eliminating the need for the rubbing process. This realizes the reproduction of vivid high-definition images with no vertical lines. The rate panel service life is approximately tenfold that of organic film panels, translating into years of high picture quality viewing enjoyment.

24P Blu-ray Direct Input Compatibility – Reproduction of Original Image Motion

The HC7000 is compatible with Blu-ray 24P direct output. Thanks to an output of up to 48P (96Hz liquid crystal panel driver), twice the speed of conventional movie signals (24 frames/sec), unbelievably life-like images are reproduced with a smoothness and texture detail that mirror the original.



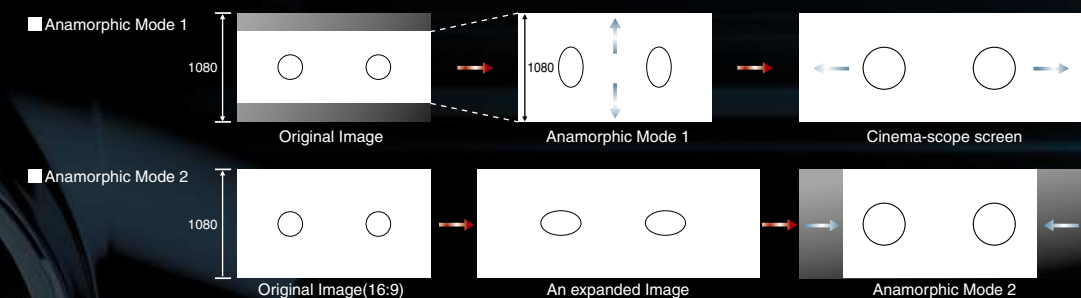
"Deep Color" Compatible HDMI 1.3 Input Terminals

The HC7000 has two HDMI input terminals, and is capable of processing high-contrast images from 10- and 12-bit video signals in addition to the conventional 8-bit signal.



Anamorphic Lens Compatibility - Choose Setting Based on Media Played

The anamorphic lens compatibility of the HC7000 widens the projection range of cinema-scope images. Mode 1 proves extended projection, and Mode 2 is for images other than cinema-scope, which mirror the original with the anamorphic lens attached.



Amazingly Easy to Use Anytime, Anywhere

3D Micro-surface Air Filter

The HC7000 comes with an air filter that has a three-dimensional honeycomb structure, a microscopic filtering surface and a special electrostatic film for enhanced filtering efficiency. It attaches to the side of the projector and works as an air purification system to prevent dirt and other air-borne particulates from entering the chassis.

Long-life Lamp (up to 5000 hours)

The projection lamp has a long 5000-hour service life for months of uninterrupted viewing pleasure. When its time to clean or replace to lamp, a side-loading installation design makes it so the projector does not need to be moved. So regardless of installation—whether suspended from the ceiling or sitting on a shelf—lamp maintenance and replacement is simple and easy.

Trigger Terminal

The HC7000 is equipped with a projector power switch/screen extension/retraction trigger combination, creating a convenient one-touch operation function for cinema viewing. An anamorphic mode is also incorporated.

Illuminated Remote Controller

The button on the remote controller illuminate automatically, promising easy, trouble-free operation even in the darkest of rooms. Convenience is also improved with a function that enables the screen to be adjusted directly from the remote controller.

