

MITSUBISHI ELECTRIC

MITSUBISHI HOME THEATER PROJECTOR

Changes for the Better

Black shades, that stand out. Beauty, in a class of its own.



HDMI™
HIGH DEFINITION MULTIMEDIA INTERFACE



Contrast ratio 3000:1
HOME THEATER PROJECTOR
HC1100

■ **High contrast of 3000:1**

Adoption of the new DarkChip2™ and optical engine mounted with high-detail all-glass lens, realizing native contrast of 3000:1.



All-glass lens

1000:1

3000:1

■ **Newly developed color wheel to reproduce natural tones (RGB RGB)**

● Adopts standard light D65 color temperature
The key to reproduce visual sources in more realistic color tones. Mounted with a quadruple speed color wheel to reproduce the color temperature considered to comprise standard light - D65 (6,500K).



New color wheel

■ **Fine-detail gradation reproduction, approaching the high-end realm**

● **Equipped with full 10-bit panel driver (DDP3020)**

Formatter board mounted with integrated full 10-bit processing I/P conversion/scaler and 12-bit floating point digital gamma correction equivalent to 20-bits.* Generates some 4 times the gradation of conventional 8-bit models, portraying subtle dark area gradation in smooth and flowing images. * In the conventional fixed format

● **High-speed LVDS (low-voltage differential signal) drive**
Equipped with high-speed memory (RLDRAM) to raise data transmission efficiency, in tandem with high-speed LVDS drive. The resulting high-caliber gradation expression challenges the high-end model range.

8bit (256steps)

10-bit (1024 steps)
for quadruple gradation



■ **The 10-bit I/P conversion circuit zaps pesky jaggies for good**

Mounted with full 10-bit processing I/P conversion circuits that forge dramatic improvements in noise. Impressive cuts in diagonal jaggies, ensuring smooth and striking image duplication.



DDP2000



DDP3020



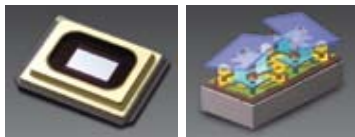
Contrast ratio 3000:1

HOME THEATER PROJECTOR

HC1100

DarkChip2™ realizing high resolution of 1280×720 dots

Adoption of 1280×720 dot high-resolution DMD chip (wide panel). The mirror inclination angle of ±12 degrees effectively cuts black shade diffused light. What's more, the switch to dark metal in the mirror rear structure blocks diffuse reflection and stray light, opening the door to rich and fine gradation expression.



Digital Micro-Mirror Device Pixel Composition Map

Selective use of high brightness and high definition modes, tailored to the images being screened

Standard mode (1000lm)

Enhances viewing even in comparatively bright rooms - dynamic images for sporting events and other TV entertainment.

Low mode (750lm)

Reproduction of enhanced black gradation approaching the high-end model realm, for dynamic movie viewing that stresses the value of dark, black images.

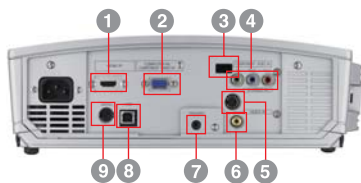
User gamma correction

Complementing the three modes of Sports, Video and Cinema, for movie viewing this projector zeroes in on the demands for "higher black level reproduction," "brighter medium contrast" and "toned down highlights" unachievable with conventional brightness functions. The key to success is independent operation of black, medium, and white gradation, ensuring subtle picture change and adjustment.



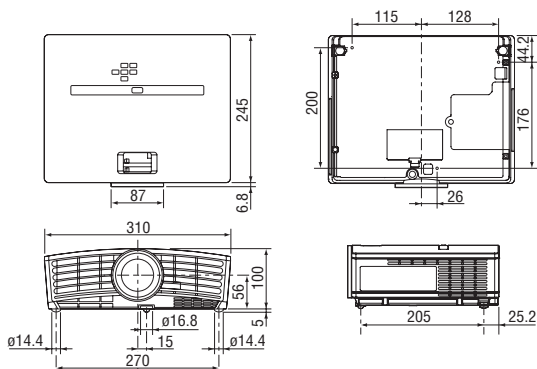
5-Stage Adjustment

Rear terminals



- 1 HDMI×1
- 2 RGB In×1
- 3 Remote IR
- 4 Component
- 5 S-video
- 6 Video In
- 7 Trigger Out
- 8 USB
- 9 RS-232C

External size diagram



(Unit: mm)

Specifications

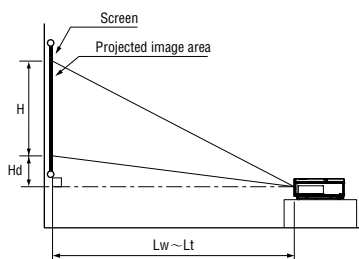
Model		HC1100		
Projection system		DLP™ system		
Panel specs	Panel size	0.62 DMD, aspect ratio 16:9		
	Number of pixels	1280×720 (DarkChip2™)		
	Drive system	DMD reflection system		
Optical specs	Array	Stripe pattern		
	Lens	Zoom/focus operation	Manual operation	
	Light source lamp	f (mm)	23~27.6	
	Optical system	Time-division color separation/composition system		
Color wheel spec		RGB RGB, 4-speed		
Picture size (inches)		40~275		
Images	Brightness (lm)		1000	
	Contrast ratio		3000:1 (full on/full off)	
	Resolution	PC input	VGA(640×480) -SXGA(1280×1024) (compressed)	
	Scanning frequency	Horizontal (kHz)	15~80	
		Vertical (Hz)	50~85	
Input signal system		NTSC, NTSC4.43, PAL (including PAL-M,N), SECAM, PAL-60, HDTV (480i/p, 576i/p, 1081i, 720p)		
Input	PC		PC/AT compatible machines, MAC, PC98	
	Video	Analog RGB	Mini D-SUB15 pin	1 terminal
		Digital RGB	HDMI	1 terminal
		Composite	RCA terminal	1 terminal
		S	S terminal	1 terminal
		Component	RCA terminal	1 RCA terminal (Component can be also input to D-SUB)
Serial/RS-232C standard			1 terminal (8 pins)	
Functions	Function/other	Gamma mode	3 patterns + 2 users	
	Trapezoidal distortion correction	Vertical keystone	±40 steps (1 step = approx. 1 time)	
		Horizontal keystone	±25 steps (1 step = approx. 1 time)	
	Power supply voltage		AC100-240V 50/60Hz	
	Power consumption (W)		280 (8W at standby)	
	Weight (kg)		2.9	
	Main unit dimensions	Width (mm)	310	
Depth (mm)		245		
Height (mm)		100		
Fan noise		25dBA(Lamp Low Mode)		
Other		Supplied accessories		
		Power source cord (2.9m), remote control unit, AA-size batteries (×2), RGB signal cable, user's manual, RS-232C cable, lens cap (attached to main unit)		

Screen size and Projection distance

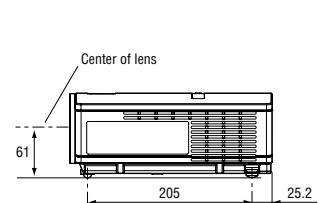
Screen aspect ratio of 16:9

Diagonal	Screen size		Hd (cm)	Projection distance	
	W : width (cm)	H : height (cm)		Lw : Min.	Lt : Max.
40	89	50	17	1.4	1.7
60	133	75	25	2.2	2.6
70	155	87	29	2.5	3.1
80	177	100	33	2.9	3.5
90	199	112	38	3.3	4.0
100	221	125	42	3.6	4.4
110	244	137	46	4.0	4.9
120	266	149	50	4.4	5.3
150	332	187	63	5.5	6.6
275	609	342	115	10.1	-

Floor mounted



Dimensional diagram



Unit (mm)

Options

Conversion plug	Ceiling-mount fittings		Elevated-position installation fitting
VLT-HC910LP	BR-1 (base unit)	BR-HC900JS*1	BR-H900*2

*1: Note: Used in combination with the base unit.

*2: This part is utilized to install the projector unit, placed upside down, at elevated positions within the room.

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