

**MITSUBISHI
ELECTRIC**
HOME THEATRE PROJECTOR

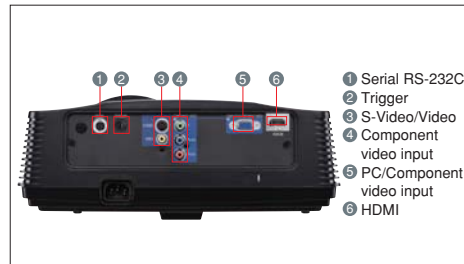
Big-screen Cinema, Sports and Games
All in the Comfort of Your Home

■ Specifications

| | | | |
|---------------------------------|------------------------------|--|---|
| Projection system | | DLP™ system | |
| Panel specs | Panel size | 0.65 DMD, Aspect ratio 16:9 | |
| | Number of pixels | 1920x1080 | |
| | Drive system | DMD reflection system | |
| Optical specs | Array | Stripe pattern | |
| | Lens | Zoom / focus operation*1 1.5x manual zoom / manual operation | |
| | f (mm)*1 | 20.6-30.1 | |
| Colour wheel | Light source lamp | 230W (at standard mode), 190W (at low mode) | |
| | Optical system | Time-division colour separation / composition system | |
| Projection screen size (inches) | | 6 segment (RGB RGB), 4x 50-300 | |
| Images | Brightness (lm)*1*2 | 1300 (Max) | |
| | Contrast ratio*1 | 3600:1 | |
| | Resolution | PC input | VGA 640x480 - UXGA1600x1200, 1920x1080 |
| | Scan frequency | Horizontal (kHz) | 15-80 |
| 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, PC98 | |
| | Input | Video | PC input |
| HDMI input | | HDMI terminal | 1 terminal (Ver.1.3, Deep color) |
| Composites | | RCA terminal | 1 terminal |
| S-Video | | S-Video terminal | 1 terminal |
| Components | | RCA terminal | 1 terminal (component can be also input to Mini D-Sub 15 pin) |
| Serial | | 1 terminal (Mini DIN 8 pin, RS-232C follow) | |
| Functions | Gamma mode | 3 patterns + 2 users | |
| | Digital keystone (Vertical) | ±15 steps | |
| | Power source voltage | AC100V 50/60Hz | |
| | Power consumption | 340W (0.4W in standby) | |
| | Weight (kg / lbs) | 3.6 / 7.9 | |
| Other | Main unit dimensions (WxHxD) | 345 x 129 x 270mm (excluding height adjustment) | |
| | Supplied accessories | Power source cord (1.8m), Remote control, AA batteries (x2), RGB signal cable, Lens cap, Lamp replacement attachment | |

*1 Varies depending on conditions. *2 All brand names and product names are trademarks, registered trademarks or trade names of their respective holders. Lamp life specification is an estimate based on verification under proper conditions and is not the duration of the warranty. Lamp will shut-off automatically when usage reaches the specified estimated maximum lamp hours. Service life may vary widely depending on usage and operating environment and conditions, as well as users' adherence to the maintenance and cleaning procedures provided in the user manual.

■ Terminals



■ Option

Replacement Lamp



VLT-HC3800LP

MITSUBISHI ELECTRIC AUSTRALIA PTY LTD

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To find out more about HC4000 and our projectors, visit us at

www.MitsubishiElectric.com.au



Newly Improved Full High-definition Performance

HC4000





Movies, TV programs, games and more Enjoy it all in high-definition on 100"+ screens

Imagine it... the latest home theatre technology bringing you hours of viewing pleasure in the comfort of your own home. Easy to set-up and operate – the HC4000 reproduces beautiful, high-definition (HD) imagery, bringing movies and TV programs to life with vivid, sharp colours, and adding new meaning to the word “excitement” when playing games. Enjoy it all on a large 100"+ screen while relaxing on your living room sofa.

Finally, an affordable full-HD projector that spares nothing to ensure a new dimension in viewing pleasure. An amazing level of beauty and excitement you need to experience with your own eyes.

FULL HD 1080

HDMI™ HIGH DEFINITION MULTIMEDIA INTERFACE

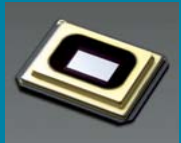


HOME THEATRE PROJECTOR
HC4000

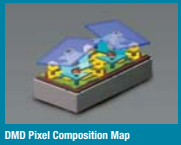
Illuminated remote control unit

High-performance 0.65-in DLP™ DarkChip3™

A key feature of the HC4000 is the latest Digital Light Processing (DLP™) chip incorporating a new digital micromirror device (DMD) comprised of densely embedded micromirrors. A smaller mirror cavity diameter and narrower gaps between the mirrors improve the aperture ratio of the innovative chip, and reflective light diffusion has been greatly reduced by improving the wiring below the mirror section. The mirrors are controlled to tilt repeatedly several thousand times per second, enabling smooth, true reproduction of the digital source into finely detailed images without noise or deterioration.



Digital Micro-Mirror Device



DMD Pixel Composition Map

1300lm brightness, 3600:1 native contrast

A fixed iris has been adopted, providing both enhanced brightness and contrast for images. Even in a relatively bright living room with the curtains closed, movies, sports, high-definition broadcasts and Blu-ray sources can be enjoyed in crystal-clear high-definition.

Full High-definition, all-glass 1.5x Short-throw Zoom Lens

A newly developed short-throw zoom lens has been adopted for the HC4000. The 4-cluster, 13-piece all-glass lens provides excellent focusing performance with 1.5x magnification of high-definition images. Improvements in image depth and the lens aperture make it possible for deep blacks to be expressed.



High-output, Long-life Lamp & Quiet performance

The light source is a 230W high-output lamp capable of a long estimated lifetime of up to 5000 hours when operating in low mode*. The low-noise fan is specially designed for cooling efficiency taking factors such as fan and colour wheel shape into consideration, ensuring an impressively low 25dB quietness when operating in low mode.



DDP3021 Full 10-bit Panel Driver

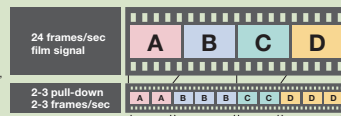
The built-in DDP3021 full 10-bit panel driver delivers approximately four times the gradation of 8-bit models, providing smooth expression of dark gradation subtleties.

Blu-ray 24P direct output compatible

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

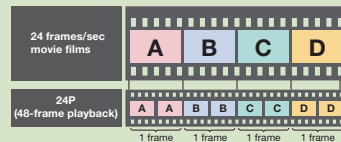
2-3 Pull-down

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.



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.



Richer, More True-to-life Colours

The HC4000 is equipped with a six-segment colour wheel capable of reproducing a standard illumination at the colour temperature of D65 (6.5 million). Signals from video sources are reproduced with more true-to-life colours and richer gradation.

Colour Management for Preferred Colour Adjustment

Adjust images to your colour preferences. R (red), G (green), B (blue), C (cyan), M (magenta), and Y (yellow) can each be individually adjusted with the built-in colour management function.

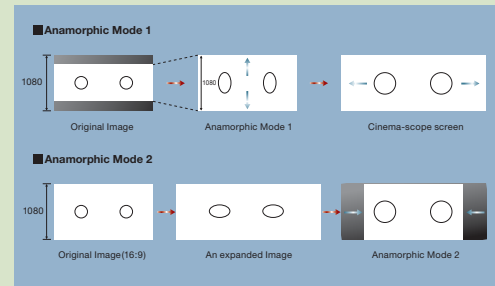


Before adjustment

After adjustment

Anamorphic Lens Compatibility - Choose a Setting Based on the Media Being Played

The anamorphic lens compatibility of the HC4000 widens the projection range of cinema-scope images. Mode 1 provides extended projection, and Mode 2 is for images other than cinema-scope, which mirror the original with the anamorphic lens attached.



BrilliantColor™

A new colour processing algorithm and improvements in system-level colour signal picture quality enable accurate reproduction of many mid-range colours in video and natural scenery.

Adjustable Overscan

For images such as DVD sources, the overscan ratio can be varied between 90 and 100% in 1% intervals when HDMI or Component connections are used.

One-touch projection

The projector power switch and electric screen (roll down/retract) control are linked, providing a convenient one-touch operation trigger.

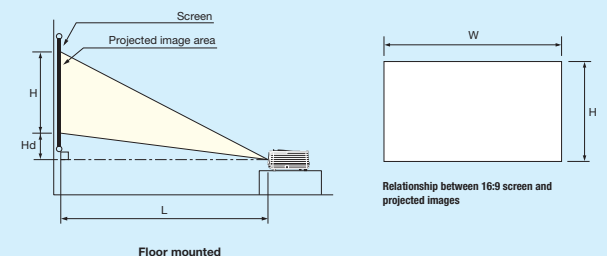
Screen Distortion Correction

Correct screen distortion using the shape distortion correction function for digital models. Vertical distortion correction of ±15 steps (1 step approximately 1°) is possible.

Projection Distance

| Screen size (16:9) | Screen size (16:9) | | | Projection distance(L) | |
|--------------------|--------------------|---------------|----------------|------------------------|---------------------|
| | Diagonal (inch) | Width(W) (cm) | Height(H) (cm) | Hd (cm) | Shortest (Wide) (m) |
| 50 | 111 | 62 | 21 | 1.5 | 2.3 |
| 60 | 133 | 75 | 25 | 1.8 | 2.7 |
| 70 | 155 | 87 | 29 | 2.1 | 3.2 |
| 80 | 177 | 100 | 34 | 2.4 | 3.6 |
| 90 | 199 | 112 | 38 | 2.7 | 4.1 |
| 100 | 221 | 125 | 42 | 3.1 | 4.6 |
| 110 | 244 | 137 | 46 | 3.4 | 5.0 |
| 120 | 266 | 149 | 50 | 3.7 | 5.5 |
| 150 | 332 | 187 | 63 | 4.6 | 6.9 |
| 200 | 443 | 249 | 84 | 6.2 | 9.2 |
| 250 | 553 | 311 | 105 | 7.7 | 11.5 |
| 300 | 664 | 374 | 126 | 9.3 | - |

Projection Installation



Relationship between 16:9 screen and projected images

Floor mounted