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MITSUBISHI HC1600

Mitsubishi HC1600 720p DLP Home Theater Projector User Manual

INTRODUCTION

The Mitsubishi HC1600 is a 720p DLP home theater projector designed to deliver high-definition video projection. It features 1700 ANSI lumens brightness and a 2500:1 contrast ratio, utilizing Texas Instruments BrilliantColor processing technology for enhanced image quality. This manual provides essential information for the proper setup, operation, and maintenance of your projector.



Figure 1: Front view of the Mitsubishi HC1600 projector, showcasing its compact design and lens.

KEY FEATURES

- Native 720p Resolution (1280 x 720)
- 1700 ANSI lumens brightness
- 2500:1 contrast ratio
- Exclusive Mitsubishi BrilliantColor technology
- Up to 3000 hours lamp life (low mode)
- Ultra-quiet 25dBA noise level (low mode)

SETUP

1. Placement

The HC1600 projector offers flexible installation options. It can be mounted on a ceiling or placed on a table or shelf. Ensure the projector is positioned to achieve the desired screen size. For a 100-inch diagonal picture, a throw distance of approximately 14 feet is typically required. Avoid obstructing the ventilation openings.

2. Connections

Connect your video sources to the appropriate input ports on the projector. The available input options include:

- **HDMI:** 1 x HDMI port for digital video and audio.
- **RGB (VGA):** 1 x Mini D-sub 15pin for computer connection.
- **Component Video:** 1 x RCA (Y, PB/CB, PR/CR) for high-quality analog video.
- **Composite Video:** 1 x RCA for standard analog video.
- **S-Video:** 1 x S-VIDEO port.
- **RS-232C:** 1 x 8pin port for remote control and system integration.

Ensure all cables are securely connected before powering on the projector.

3. Power

Connect the supplied AC power cable to the projector's power input and then to a suitable electrical outlet (AC 100-240V, 50/60Hz). The projector consumes approximately 280W/2.9A during operation.

4. Image Adjustment

- **Focus and Zoom:** Use the manual focus and zoom rings on the lens to achieve a sharp and appropriately sized image.
- **Keystone Correction:** If the projected image appears trapezoidal, use the digital keystone correction feature (both vertical and horizontal) to square the picture. Refer to the on-screen menu for adjustments.

OPERATING INSTRUCTIONS

1. Power On/Off

Press the power button on the projector or the remote control to turn the unit on. Allow a few moments for the lamp to warm up and the image to appear. To power off, press the power button again. The projector will enter a cool-down cycle before completely shutting down.

2. Input Source Selection

Use the "Input" or "Source" button on the remote control or projector panel to cycle through the available input sources (HDMI, RGB, Component, Composite, S-Video) until your desired source is displayed.

3. Picture Settings

Access the on-screen display (OSD) menu using the "Menu" button on the remote control. Navigate through the options to adjust picture settings such as:

- **Brightness:** Adjusts the overall lightness or darkness of the image.
- **Contrast:** Controls the difference between the lightest and darkest parts of the image.
- **Color:** Adjusts the intensity of colors.
- **Tint:** Fine-tunes the color balance (primarily for NTSC signals).
- **Sharpness:** Enhances or softens image details.
- **Aspect Ratio:** Selects the display format (e.g., 16:9, 4:3).
- **Lamp Mode:** Switch between standard and low lamp modes. Low mode extends lamp life and reduces fan noise.

MAINTENANCE

1. Lamp Replacement

The projector lamp has an estimated life rating of up to 3000 hours in low mode. When the lamp reaches the end of its life, the projector may display a warning message or the image brightness may significantly decrease. Replace the lamp with the official Mitsubishi replacement lamp (Part Number: VLT-HC910LP). Refer to the detailed lamp replacement instructions in the full user manual for safety precautions and proper installation.

2. Cleaning

- **Lens:** Gently clean the projector lens with a soft, lint-free cloth specifically designed for optical surfaces. Do not use abrasive cleaners.
- **Exterior:** Wipe the projector's exterior casing with a soft, dry cloth. For stubborn dirt, a slightly damp cloth can be used, but ensure no liquid enters the projector.
- **Air Vents:** Periodically check and clean the air vents to ensure proper airflow and prevent overheating. Use a soft brush or compressed air to remove dust.

TROUBLESHOOTING

Problem	Possible Cause / Solution
No image displayed	<ul style="list-style-type: none">• Ensure the projector is powered on and the lamp is lit.• Verify that the video source is connected correctly and powered on.• Select the correct input source using the "Input" button.• Check video cable connections for looseness or damage.
Image is blurry	<ul style="list-style-type: none">• Adjust the manual focus ring on the lens.• Ensure the projector is within the recommended throw distance for the screen size.

Problem	Possible Cause / Solution
Image is trapezoidal	<ul style="list-style-type: none"> • Use the digital keystone correction feature in the OSD menu to square the image. • Reposition the projector to be as perpendicular to the screen as possible.
Projector overheats or shuts down	<ul style="list-style-type: none"> • Ensure air vents are not blocked and are clean. • Operate the projector in a well-ventilated area. • Check ambient temperature; avoid operating in excessively hot environments.
Fan noise is loud	<ul style="list-style-type: none"> • Switch to low lamp mode, which typically reduces fan speed and noise. • Ensure air vents are clear to prevent the fan from working harder due to heat buildup.

SPECIFICATIONS

Feature	Detail
Display Technology	0.62", 1-Chip DMD, 12 deg. LVDS, DarkChip2 DDP3020
Brightness	1700 ANSI Lumens
Native Resolution	1280 x 720 (720p)
Maximum Resolution	1280 x 1024
Contrast Ratio	2500:1 (on/off)
Viewable Size	40-275 inches diagonal
Color Wheel	5-segment (RGBWY)
Lens Adjustment	Manual Focus & Zoom
Scanning Frequency (H)	15 - 80 kHz
Scanning Frequency (V)	50 - 85 Hz
Video Input Support	NTSC, PAL, SECAM, 480i/p, 576i/p, 720p, 1080i
Input Terminals	RGB (Mini D-sub 15pin x 1), HDMI x 1, RCA Video x 1, S-VIDEO x 1, Component (RCA Y, PB/CB, PR/CR) x 1
Control Terminal	RS-232C (8pin) x 1
Estimated Lamp Life	3000 hours (low mode)
Replacement Lamp	VLT-HC910LP
Weight	6.5 lbs (2.95 kg)

Feature	Detail
Dimensions (W x H x D)	12.2" x 3.9" x 9.6" (31.0 cm x 9.9 cm x 24.4 cm)
Power Consumption	280W / 2.9A
Power Requirements	AC 100-240V, 50/60Hz

WARRANTY AND SUPPORT

The Mitsubishi HC1600 projector comes with a **1-Year Limited Parts and Labor Warranty**. The projector lamp is covered by a separate **1-Year or 500 hours lamp warranty**, whichever comes first. For technical support or warranty claims, please contact your authorized Mitsubishi service provider.

Included Accessories

- AC Power cable
- RGB cable
- RS-232C cable
- Remote Control (with batteries)
- User Manual (this document provides a summary; refer to the full printed manual for comprehensive details)