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Hitachi CP-DX250

Hitachi CP-DX250 DLP Projector User Manual

Model: CP-DX250

1. Introduction

This manual provides essential instructions for the safe and efficient operation of your Hitachi CP-DX250 DLP Projector. Please read this manual thoroughly before using the projector and retain it for future reference. The Hitachi CP-DX250 is designed to deliver bright, clear images with XGA resolution and features such as 3D readiness and Intelligent Eco Mode for energy efficiency.

2. Safety Information

Observe the following safety precautions to prevent fire, electric shock, or injury.

2.1 General Safety

- Do not block ventilation openings.
- Do not expose the projector to rain or moisture.
- Do not open the projector casing; refer all servicing to qualified personnel.
- Avoid looking directly into the projector lens when the lamp is on.

2.2 Electrical Safety

- Use only the power cord supplied with the projector.
- Ensure the power outlet is properly grounded.
- Unplug the projector during lightning storms or when unused for long periods.

3. Product Overview

The Hitachi CP-DX250 is a versatile DLP projector featuring XGA resolution (1024 x 768 pixels), 2500 ANSI lumens brightness, and a 2500:1 contrast ratio. It supports 3D viewing and incorporates ImageCare technology for optimal performance and energy savings.



Figure 1: Front-right view of the Hitachi CP-DX250 DLP Projector. The image shows the projector's white casing, the main projection lens on the front, and ventilation grilles on the side.

3.1 Key Features

- **XGA Resolution:** 1024 x 768 pixels for clear images.
- **High Brightness:** 2,500 ANSI lumens light output.
- **High Contrast Ratio:** 2,500:1 for enhanced image depth.
- **3D Capable:** Supports 3D viewing (requires compatible glasses and graphics card, not included).
- **Long Lamp Life:** Up to 6,000 hours in Eco mode.
- **HDMI Connectivity:** For high-definition audio/video input.
- **Intelligent Eco Mode:** Automatically adjusts lamp brightness for energy savings.
- **ImageCare Technology:** Optimizes picture performance and energy consumption.
- **Filter-Free Design:** Reduces maintenance requirements.
- **Wall Color Correction:** Adjusts colors for non-white projection surfaces.

4. Setup

4.1 Placement

Position the projector on a stable, level surface. Ensure adequate ventilation around the unit. Avoid placing it near heat sources or in direct sunlight. The projection distance will vary based on the desired screen size.

4.2 Connections

1. Connect your video source (e.g., computer, Blu-ray player) to the projector's HDMI input using an HDMI cable.
2. For other sources, use the appropriate VGA or composite video inputs.
3. Connect the power cord to the projector and then to a grounded electrical outlet.

4.3 Power On/Off

- **Power On:** Press the power button on the projector or remote control. The power indicator will illuminate.
- **Power Off:** Press the power button twice. The projector will enter a cooling cycle before shutting down completely.

- **Standby Mode:** The projector features a power-saving standby mode, reducing power consumption to less than 0.5W.

5. Operating the Projector

5.1 Basic Projection

- **Focus Adjustment:** Rotate the focus ring on the lens until the image is sharp.
- **Zoom Adjustment:** Use the zoom ring on the lens to adjust the image size. Note that the zoom range may be limited.
- **Keystone Correction:** Use the menu options to correct trapezoidal distortion if the projector is not perfectly perpendicular to the screen.

5.2 3D Viewing

The CP-DX250 is 3D capable. To experience 3D content, you will need:

- Compatible 3D glasses (not included).
- A special graphics card or 3D-enabled source device (not included).
- 3D content.

Refer to your 3D source device's manual for specific setup instructions.

5.3 Eco Modes and ImageCare

- **Intelligent Eco Mode:** This feature automatically adjusts the lamp brightness based on the content being displayed, optimizing energy usage and extending lamp life.
- **ImageCare Technology:** Combines optimal picture performance with maximum energy savings by decreasing energy usage, improving contrast ratio, and lengthening lamp life.
- These modes contribute to the extended lamp life of up to 6,000 hours.

6. Maintenance

6.1 Lamp Replacement

The lamp life is approximately 4,500 hours in standard mode and 6,000 hours in Eco mode. When the lamp reaches the end of its life, a warning indicator will appear. The lamp door is conveniently located on top of the projector for easy access.

1. Ensure the projector is powered off and completely cooled down.
2. Locate and open the lamp cover on the top of the projector.
3. Carefully remove the old lamp module.
4. Install the new lamp module, ensuring it is securely seated.
5. Close the lamp cover and reset the lamp timer in the projector's menu.

6.2 Cleaning

- **Projector Casing:** Wipe with a soft, dry cloth. For stubborn dirt, use a slightly damp cloth with a mild detergent, then wipe dry.
- **Lens:** Use a lens cleaning cloth and lens cleaning solution specifically designed for optical surfaces. Do not use abrasive cleaners.
- **Filter-Free Design:** This projector features a filter-free design, eliminating the need for regular air filter cleaning or

replacement.

7. Troubleshooting

If you encounter issues, refer to the following common problems and solutions before contacting support.

Problem	Possible Cause	Solution
No image displayed	Power cord disconnected, input source not selected, source device off.	Check power connection, select correct input, ensure source device is on.
Image is blurry	Lens out of focus, incorrect projection distance.	Adjust the focus ring on the lens. Ensure projector is within optimal projection distance.
Image has incorrect colors	Incorrect color settings, non-white projection surface.	Adjust color settings in the menu. Use Wall Color Correction feature if projecting on a colored wall.
Projector shuts down unexpectedly	Overheating due to blocked ventilation.	Ensure ventilation openings are clear. Allow projector to cool down.

8. Specifications

Feature	Detail
Model Number	CP-DX250
Display Technology	DLP
Native Resolution	XGA (1024 x 768)
Brightness	2,500 ANSI Lumens
Contrast Ratio	2,500:1
Lamp Life	4,500 hours (Standard Mode), 6,000 hours (Eco Mode)
Connectivity	HDMI, VGA, Composite Video
3D Capability	Yes (3D Ready)
Power Consumption	Less than 0.5W in Standby Mode
Dimensions (W x D x H)	10.4 x 8.8 x 3.2 inches
Weight	4.8 pounds
Certifications	UL 60950-1 / cUL FCC Part 15 subpart B class B

9. Warranty and Support

For warranty information and technical support, please refer to the warranty card included with your product or visit the official Hitachi support website. Keep your purchase receipt as proof of purchase for warranty claims.
Note: Specific warranty terms and conditions may vary by region.

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