Hitachi CP-WX4021N

Hitachi CP-WX4021N WXGA Projector User Manual

Model: CP-WX4021N

1. Introduction

This manual provides essential instructions for the safe and efficient operation of your Hitachi CP-WX4021N WXGA Projector. The CP-WX4021N is designed to deliver clear, easily visible images with 4000 ANSI Lumens, suitable for various environments including meeting rooms, lecture halls, and auditoriums. Key features include horizontal and vertical lens shift for flexible image positioning without distortion, and versatile connectivity options.

2. Important Safety Information

Please read all safety instructions carefully before using the projector. Failure to follow these instructions may result in electric shock, fire, or damage to the product.

- **Power Source:** Connect the projector only to the type of power source indicated on the marking label.
- **Ventilation:** Do not block ventilation openings. Ensure adequate space around the projector for proper airflow to prevent overheating.
- **Heat:** The projector lamp operates at high temperatures. Allow the projector to cool down completely before moving or performing maintenance.
- **Lamp:** Do not look directly into the projector lens when the lamp is on, as it can cause eye damage.
- **Liquid and Moisture:** Do not expose the projector to rain or moisture. Do not place objects filled with liquids on or near the projector.
- **Servicing:** Refer all servicing to qualified service personnel. Do not attempt to open or repair the projector yourself.

3. Package Contents

Verify that all items are present in the package:

- Hitachi CP-WX4021N Projector
- Power Cord

- Remote Control with Batteries
- VGA Cable
- User Manual (this document)
- CD-ROM (Software/Documentation)

4. Product Overview

Familiarize yourself with the projector's components and controls.



Figure 4.1: Front View of Hitachi CP-WX4021N Projector. This image displays the front of the projector, highlighting the central projection lens, the large ventilation grille on the left, and the Hitachi brand logo on the right. The overall casing is white with a grey base.

4.1 Front Panel

- **Projection Lens:** Emits the image onto the screen.
- **Ventilation Grille:** Ensures proper airflow for cooling the projector. Do not obstruct.
- **Infrared Receiver:** Receives signals from the remote control.

4.2 Top Panel Controls and Indicators

- **Power Button:** Turns the projector on or off.
- **Input Button:** Selects the input source (HDMI, VGA, etc.).
- **Menu Button:** Accesses the on-screen display (OSD) menu.
- **Navigation Buttons:** Used to navigate through OSD menus and adjust settings.
- **Focus Ring:** Adjusts the image clarity.
- **Zoom Ring:** Adjusts the image size.
- **Lens Shift Dials:** Manually adjust the horizontal and vertical position of the projected image.
- **Indicator Lights:** Display projector status (e.g., Power, Lamp, Temperature).

4.3 Rear Panel Connections

- **HDMI Port:** For digital video and audio input.
- **VGA (D-Sub) Ports:** For analog video input from computers.
- **USB Port:** For connecting USB devices or firmware updates.
- **Ethernet (LAN) Port:** For network control and monitoring.

- **Audio In/Out:** For connecting external audio devices.
- **Power Inlet:** Connects the power cord.

5. Setup

5.1 Projector Placement

Position the projector on a stable, level surface or mount it securely. Ensure the projector is within the optimal projection distance for your screen size. Avoid placing it in direct sunlight or near heat sources.

5.2 Connecting Power

1. Connect the power cord to the projector's power inlet.
2. Plug the other end of the power cord into a grounded electrical outlet.

5.3 Connecting Input Sources

Connect your video source (e.g., computer, Blu-ray player) to the appropriate input port on the projector.

- **HDMI:** Use an HDMI cable for high-definition digital video and audio.
- **VGA:** Use a VGA cable for analog video from a computer. Connect an audio cable separately if needed.
- **USB:** For specific functions like image viewing or firmware updates, refer to the advanced settings section.
- **Ethernet:** Connect an Ethernet cable for network control and monitoring capabilities.

5.4 Initial Power-On and Image Adjustment

1. Press the **Power** button on the projector or remote control. The power indicator will illuminate.
2. Once the image appears, use the **Focus Ring** on the lens to sharpen the image.
3. Use the **Zoom Ring** to adjust the image size to fit your screen.
4. If the image is not centered, use the **Horizontal and Vertical Lens Shift Dials** to precisely adjust the image position without moving the projector.
5. If the image appears trapezoidal, adjust the keystone correction in the projector's OSD menu.

6. Operating the Projector

6.1 Powering On and Off

- **To Power On:** Press the **Power** button once.
- **To Power Off:** Press the **Power** button twice. The projector will enter a cooling cycle before fully shutting down. Do not unplug the power cord during the cooling cycle.

6.2 Selecting Input Source

Press the **Input** button on the projector or remote control repeatedly to cycle through available input sources (e.g., HDMI1, VGA1, VGA2, Video).

6.3 On-Screen Display (OSD) Menu

Press the **Menu** button to access the OSD. Use the navigation buttons to browse options and the Enter button to select. Press **Menu** again to exit.

Common OSD Settings:

- **Picture:** Adjust brightness, contrast, color, tint, sharpness, and color temperature.
- **Aspect Ratio:** Select between 4:3, 16:9, 16:10, or Auto.
- **Audio:** Adjust volume, mute, and select audio input.
- **Setup:** Keystone correction, projection mode (front/rear, desktop/ceiling), language.
- **Advanced:** Lamp settings, network settings, security features.

7. Maintenance

Regular maintenance ensures optimal performance and extends the life of your projector.

7.1 Cleaning the Projector

- **Casing:** Wipe the exterior with a soft, dry cloth. For stubborn dirt, use a slightly damp cloth with a mild detergent, then wipe dry.
- **Lens:** Use a professional lens cleaning cloth and lens cleaning solution. Do not use abrasive cleaners or excessive force.
- **Air Filters:** The air filters should be cleaned regularly (e.g., every 100 hours of use) to prevent dust buildup and overheating. Refer to the full manual for specific filter removal and cleaning instructions.

7.2 Lamp Replacement

The projector lamp has a finite lifespan. When the lamp indicator lights up or the image becomes dim, the lamp may need replacement. Always use an authorized Hitachi replacement lamp. Refer to the full service manual for detailed lamp replacement procedures, which typically involve:

1. Powering off the projector and allowing it to cool completely.
2. Locating and removing the lamp cover.
3. Unscrewing and carefully removing the old lamp module.
4. Inserting the new lamp module and securing it.
5. Replacing the lamp cover.
6. Resetting the lamp timer in the OSD menu.

8. Troubleshooting

If you encounter issues, consult the following table before contacting support.

Problem	Possible Cause	Solution
No image displayed	• Power cord disconnected • Incorrect input source selected • Source device not powered on or connected • Lamp failure	• Check power connections. • Press the **Input** button to select the correct source. • Ensure source device is on and cable is securely connected. • Check lamp indicator; replace lamp if necessary.
Image is blurry	• Lens out of focus • Projector too close/far from screen	• Adjust the **Focus Ring**. • Adjust projector distance or use the **Zoom Ring**.
Image is trapezoidal	• Projector not perpendicular to screen	• Adjust keystone correction in the OSD menu. • Reposition the projector.

Problem	Possible Cause	Solution
Overheating warning	• Blocked ventilation • Dirty air filter	• Ensure clear space around vents. • Clean or replace the air filter.

9. Specifications

Feature	Detail
Model Number	CP-WX4021N
Brand	Hitachi
Display Resolution	1280 x 800 (WXGA)
Brightness	4000 ANSI Lumens
Connectivity Technology	Ethernet, HDMI, USB, VGA
Special Features	Internet-ready, Built-in speakers, Horizontal and Vertical Lens Shift
Product Dimensions	12.52 x 15.79 x 4.09 inches
Item Weight	15.4 pounds

10. Warranty and Support

For warranty information and technical support, please refer to the warranty card included with your product or visit the official Hitachi website. Keep your purchase receipt as proof of purchase for warranty claims.
Online Support: www.hitachi.com/support (This is a placeholder link, please refer to the actual Hitachi support page for your region).