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Hitachi CP-WX4042WN

Hitachi CP-WX4042WN LCD Projector User Manual

Introduction

This manual provides instructions for the safe and efficient operation of your Hitachi CP-WX4042WN LCD Projector. Please read this manual thoroughly before using the projector and retain it for future reference. Adhering to these guidelines will ensure optimal performance and longevity of your device.

Safety Information

Important Safety Instructions

- **Power Source:** Connect the projector only to the type of power source indicated on the marking label. Ensure the power outlet is properly grounded.
- **Ventilation:** Do not block any ventilation openings. Ensure adequate space (at least 30 cm or 12 inches) around the projector for proper airflow to prevent overheating.
- **Heat:** Do not place the projector near heat sources such as radiators, heat registers, stoves, or other apparatus that produce heat. Avoid direct sunlight exposure.
- **Cleaning:** Unplug the projector from the wall outlet before cleaning. Use a dry, soft cloth for cleaning the exterior. For the lens, use a specialized lens cleaning cloth.
- **Servicing:** Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
- **Lamp:** The lamp inside the projector operates at high temperatures and pressures. Allow the projector to cool down completely (at least 45 minutes) before moving, performing maintenance, or replacing the lamp.
- **Liquid and Moisture:** Do not expose the projector to rain or moisture. Do not place objects filled with liquids, such as vases, on the projector.

Product Overview

Projector Components

The Hitachi CP-WX4042WN is a 4000-lumen WXGA 3LCD projector designed for various presentation environments. Key components include the projection lens, control panel, and various input/output ports located

on the rear and sides of the unit.



Figure 1: Front view of the Hitachi CP-WX4042WN LCD Projector, showing the projection lens and ventilation grilles. The projector features a white casing with a prominent lens assembly.

Input/Output Ports

The projector features a comprehensive set of connectivity options to integrate with various source devices and control systems:

- **HDMI Inputs (x2):** For digital video and audio signals from devices like laptops, Blu-ray players, or gaming consoles. One HDMI input supports MHL (Mobile High-Definition Link) for compatible mobile devices.
- **VGA Inputs (x2):** For analog computer signals. One VGA input can also function as an output to daisy-chain multiple projectors.
- **RCA Composite Input:** For standard definition video sources.
- **USB Port:** Primarily for service, firmware updates, or connecting specific USB devices as supported.
- **Ethernet (RJ-45):** For network control, monitoring, and integration with network management systems.
- **RS-232C:** For serial control, allowing integration with room control systems.
- **Audio Inputs/Output:** Various audio jacks for connecting external audio sources and outputting audio to external sound systems. The projector also includes a built-in 16W speaker.

Setup

Placement

Position the projector on a stable, level surface or mount it securely to the ceiling using a compatible projector mount. Ensure the projection lens is as perpendicular as possible to the screen for optimal image geometry. Maintain adequate clearance around the projector for ventilation to prevent overheating.

Connecting Devices

1. **Power Connection:** Connect the power cord securely to the projector's AC inlet and then to a grounded electrical outlet.
2. **Video Source:**
    - For digital sources (e.g., laptop, Blu-ray player), connect an HDMI cable to one of the projector's HDMI inputs.

    - For analog computer sources, connect a VGA cable to one of the projector's VGA inputs.
    - For MHL-compatible mobile devices, use an MHL cable to connect to the designated HDMI/MHL input.
3. **Audio Connection:** If using an external audio system, connect the audio output from your source device to the projector's audio input, or connect the projector's audio output to your external sound system. The projector also has a built-in 16W speaker for direct audio output.
4. **Network/Control:** For network control and monitoring, connect an Ethernet cable to the RJ-45 port. For serial control, connect an RS-232C cable to the corresponding port.

Powering On/Off

- **To Power On:** Press the power button on the projector's control panel or the remote control. The power indicator light will illuminate, and the projector will begin its startup sequence.
- **To Power Off:** Press the power button again. A confirmation message may appear on the screen; press the power button a second time to confirm shutdown. Allow the projector to cool down completely before unplugging the power cord or moving the unit.

Operating Instructions

Basic Operation

- **Input Selection:** Use the "Input" button on the projector's control panel or the remote control to cycle through available input sources (HDMI1, HDMI2/MHL, VGA1, VGA2, Composite). Select the input corresponding to your connected device.
- **Menu Navigation:** Press the "Menu" button to access the on-screen display (OSD) menu. Use the arrow buttons on the control panel or remote to navigate through menu options, and press "Enter" to select or confirm settings.

Image Adjustment

- **Focus:** Rotate the focus ring on the projection lens until the projected image appears sharp and clear.
- **Zoom:** Adjust the zoom ring on the projection lens to increase or decrease the size of the projected image to fit your screen.
- **Keystone Correction:** If the image appears trapezoidal (wider at the top or bottom), use the keystone correction function available in the OSD menu to square the image. This digitally corrects the distortion.
- **Picture Mode:** Select an appropriate picture mode (e.g., Dynamic, Standard, Cinema, sRGB) from the OSD menu to optimize image quality, color, and brightness for different types of content or viewing environments.

Advanced Features

- **MHL Connectivity:** Connect an MHL-compatible smartphone or tablet to the designated HDMI/MHL input using an MHL cable to project content directly from your mobile device.
- **Network Control:** The projector can be controlled and monitored over a network using its Ethernet port. This allows for remote management and integration with existing network infrastructure. Refer to the projector's network setup guide for detailed configuration instructions.
- **Daisy-Chain Function:** Utilize the VGA output port to connect and mirror content across multiple projectors, which is useful for large venues or multi-screen setups.

Maintenance

Lamp Replacement

The projector lamp has an estimated lifespan of approximately 5000 hours in normal mode and up to 10000 hours in economy mode. When the lamp indicator illuminates or the image brightness significantly decreases, the lamp may need replacement.

1. **Power Off and Cool Down:** Turn off the projector and unplug the power cord. Allow at least 45 minutes for the lamp to cool completely to prevent burns.
2. **Locate Lamp Cover:** Refer to the diagram in the full user manual (not provided here) to locate and remove the lamp cover, typically secured by screws.
3. **Remove Old Lamp:** Loosen the screws securing the lamp module and carefully pull out the old lamp. Handle with care as the lamp may be fragile.
4. **Install New Lamp:** Insert the new lamp module, ensuring it is seated correctly and securely. Tighten the screws and replace the lamp cover.
5. **Reset Lamp Timer:** After replacement, reset the lamp timer through the projector's OSD menu to accurately track the new lamp's usage.

Air Filter Cleaning

Regularly clean the air filter to maintain optimal performance, prevent dust buildup, and avoid overheating. A dirty filter can significantly reduce lamp life and image quality.

- Power off the projector and allow it to cool completely.
- Locate the air filter cover, typically on the side or bottom of the projector, and remove it.
- Remove the filter and gently clean it with a soft brush or a vacuum cleaner. Do not wash the filter with water.
- Reinsert the clean filter and replace the cover securely.

General Care

- **Cleaning the Casing:** Use a soft, dry cloth to clean the projector casing. Do not use abrasive cleaners, solvents, or chemical sprays, as these can damage the finish.
- **Cleaning the Lens:** Gently wipe the projection lens with a specialized lens cleaning cloth. Avoid touching the lens directly with your fingers to prevent smudges.

Troubleshooting

This section provides solutions to common issues you might encounter. If the problem persists, please contact customer support.

Problem	Possible Cause	Solution
No image displayed	Power cord disconnected; Incorrect input source selected; Source device not powered on or connected properly.	Check all power connections; Select the correct input source using the 'Input' button; Ensure the source device (e.g., laptop) is powered on and its video output is active.

Problem	Possible Cause	Solution
Image is blurry	Lens out of focus; Projector too close or too far from the screen.	Adjust the focus ring on the lens; Adjust projector distance or use the zoom ring to achieve optimal image size and clarity.
Image is trapezoidal	Projector not perpendicular to the screen; Projector is tilted.	Use the keystone correction function in the OSD menu to square the image. Adjust projector placement if possible.
No sound	Volume too low or muted; Incorrect audio input selected; External audio system not connected or powered on.	Increase volume on the projector and source device; Check audio input settings in the OSD menu; Verify external audio system connections and power.
Projector overheats and shuts down	Blocked ventilation; Dirty air filter; High ambient temperature.	Ensure clear ventilation paths around the projector; Clean the air filter as described in the maintenance section; Operate the projector in a cooler, well-ventilated environment.

Specifications

Detailed technical specifications for the Hitachi CP-WX4042WN LCD Projector:

- **Model:** CP-WX4042WN
- **Display Technology:** 3LCD
- **Native Resolution:** WXGA (1280 x 800)
- **Brightness:** 4000 Lumens
- **Contrast Ratio:** 10,000:1
- **Lamp Life:** 5000 hours (Normal Mode), 10000 hours (Economy Mode)
- **Connectivity:** 2x HDMI (1x MHL compatible), 2x VGA (1x output capable), RCA Composite, USB, Ethernet (RJ-45), RS-232C, Audio In/Out
- **Built-in Speaker:** 16W
- **Product Dimensions:** 12.6 x 9.65 x 3.35 inches (32.0 x 24.5 x 8.5 cm)
- **Item Weight:** 6.61 pounds (3.0 kg)
- **Special Features:** Built-In Speaker, MHL Support, Network Control, Daisy-Chain Function, Portable design.

Warranty and Support

The Hitachi CP-WX4042WN LCD Projector typically comes with a 3-year limited warranty. For detailed warranty terms and conditions, including coverage and exclusions, please refer to the warranty card included with your product or visit the official Hitachi support website.

For technical assistance, troubleshooting beyond this manual, or service inquiries, please contact Hitachi customer support. You can find up-to-date contact information on the official Hitachi Brand Store or through the documentation provided with your projector. Please have your model number (CP-WX4042WN) and purchase

date ready when contacting support.

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