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› HY450 Android Portable Projector User Manual

Alwtniet HY450

Alwtniet HY450 Android Portable Projector User Manual

Model: HY450

INTRODUCTION

This manual provides detailed instructions for the setup, operation, maintenance, and troubleshooting of your Alwtniet HY450 Android Portable Projector. Please read this manual thoroughly before using the projector to ensure proper functionality and to maximize your viewing experience. Keep this manual for future reference.



Image: The Alwnet HY450 Android Portable Projector, showcasing its compact design and the projected image of a whale on a screen, highlighting its 700 ANSI lumens, 4K support, auto offset, and WiFi 6 capabilities.

Safety Information

Observe the following safety precautions to prevent damage to the projector and to ensure user safety:

- Do not block ventilation openings. Ensure adequate airflow around the projector to prevent overheating.
- Do not expose the projector to rain, moisture, or extreme temperatures.
- Avoid looking directly into the projector lens when the lamp is on, as the bright light can cause eye strain or damage.
- Use only the power adapter provided with the projector.
- Do not attempt to disassemble or repair the projector yourself. Refer all servicing to qualified personnel.
- Keep the projector away from water and other liquids.

Package Contents

Verify that all items are present in the package:

- Alwtniet HY450 Projector
- Power Adapter
- Remote Control
- User Manual

PRODUCT OVERVIEW

Familiarize yourself with the components and interfaces of your HY450 projector.



Image: The Alwtniet HY450 projector positioned among various devices like a laptop, headphones, game controller, and gaming console, illustrating its support for multiple device connections via HDMI, USB, and Headphone Jack ports.

Front Panel

- **Projection Lens:** Emits the image.

Rear Panel

- **Power Input:** Connects to the power adapter.
- **HDMI Port:** Connects to HDMI-enabled devices (e.g., laptops, gaming consoles).
- **USB Ports:** For connecting USB storage devices or other peripherals.
- **Headphone Jack:** For connecting external audio devices.

SETUP

1. Placement

Position the projector on a stable, flat surface. The HY450 features an ultra-short throw ratio of 0.6:1, allowing for a large image even in limited spaces. For optimal viewing, ensure the projection surface is flat and clear of obstructions.



Image: The Alwniet HY450 projector demonstrating its 0.6:1 projection short throw ratio, showing how it can project large images (e.g., 200

inches) from short distances (e.g., 2.2 meters), making it suitable for small rooms.

2. Power Connection

Connect the provided power adapter to the projector's power input port, then plug the adapter into a power outlet. The projector will power on automatically or can be turned on using the power button on the device or remote control.

3. Focus and Keystone Correction

The HY450 is equipped with electric focus and automatic vertical keystone correction. This allows for easy adjustment to achieve a clear, rectangular image without manual intervention.

- **Electric Focus:** The projector will automatically adjust the focus. You can fine-tune it using the remote control if needed.
- **Automatic Vertical Keystone:** The projector automatically corrects vertical image distortion.
- **Manual Keystone/Zoom:** For further adjustments, navigate to the settings menu to access manual keystone correction (if available) and zoom functions (50%-100% zoom).



Image: The Alwtniet HY450 projector displaying its electric focus and auto vertical keystone correction capabilities, along with a remote control highlighting the focus adjustment buttons and image zoom function.

OPERATING INSTRUCTIONS

1. Android 11.0 System Navigation

The HY450 runs on Android 11.0, providing a user-friendly interface. Use the remote control to navigate through menus, select applications, and adjust settings. The home screen provides access to pre-installed apps and allows for installation of new applications from the app store.



Image: The Alwtniet HY450 projector displaying its built-in Android system interface with various streaming service logos like Prime Video, Netflix, YouTube, Disney+, Twitch, and Plex, indicating direct access to entertainment.

2. Connectivity

The projector offers multiple connectivity options:

- **Wi-Fi 6:** Connect to your wireless network for internet access and online streaming. Navigate to [Settings > Network > Wi-Fi](#) to connect.
- **Bluetooth 5.4:** Pair with external Bluetooth speakers, headphones, or other devices. Go to [Settings > Bluetooth](#) to manage connections.
- **Screen Mirroring (AirPlay/Miracast/Screencast):** Wirelessly cast content from your iOS, Android, or Windows devices. Select the appropriate mirroring option from the projector's main menu.
- **HDMI:** Connect external devices like laptops, Blu-ray players, or gaming consoles using an HDMI cable.
- **USB:** Insert USB drives to play media files directly from storage.



Image: The Alwnet HY450 projector illustrating its WiFi 6 connectivity, supporting both 2.4G and 5G networks, and its compatibility with AirPlay, Miracast, and Screencast for seamless screen mirroring from various devices.

3. Remote Control Usage

The included remote control allows full control over the projector's functions, including power, volume, navigation, focus adjustment, and app selection. Ensure batteries are correctly inserted.

MAINTENANCE

1. Cleaning the Lens

Use a soft, lint-free cloth specifically designed for optical lenses to gently wipe the projector lens. Do not use abrasive cleaners or excessive force, as this can scratch the lens.

2. Dust Removal

Regularly clean the projector's exterior and ventilation openings with a soft, dry cloth or a small brush to prevent dust buildup, which can affect performance and lead to overheating.

3. Storage

When not in use for extended periods, store the projector in a cool, dry place, away from direct sunlight and extreme temperatures. It is recommended to use the original packaging or a protective case to prevent dust and damage.

TROUBLESHOOTING

If you encounter issues with your HY450 projector, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No image or blurry image	Incorrect focus, wrong input source, lens cap on, projector too far/close.	Adjust electric focus using the remote. Check input source. Remove lens cap. Adjust projection distance.
No sound	Volume too low, muted, incorrect audio output setting, external device audio issue.	Increase volume. Unmute. Check audio output settings on projector and connected device. Ensure external audio devices are properly connected.
Wi-Fi/Bluetooth connectivity issues	Incorrect password, out of range, interference, device not discoverable.	Re-enter password. Move projector closer to router/device. Reduce interference. Ensure Bluetooth device is in pairing mode.
Projector fan is noisy	Normal operation, dust buildup, high ambient temperature.	Fan noise is normal during operation, especially under heavy load. Ensure ventilation is not blocked. Clean dust from vents. Operate in a well-ventilated area.
Cannot play certain apps (e.g., Plex, Chromecast)	App compatibility issues, specific audio/video codec not supported, network restrictions.	Ensure apps are updated. Check app-specific requirements. Some apps may have limitations on certain Android TV boxes/projectors. Consider using an external streaming stick if issues persist.

SPECIFICATIONS

Key technical specifications for the Alwtniet HY450 Projector:

Feature	Detail
Model	HY450
Brand	Alwtniet

Feature	Detail
Native Resolution	1920 x 1080 (1080P)
Maximum Resolution	1920 x 1080 (4K Support)
Brightness	700 ANSI Lumens
Contrast Ratio	1000:1
Aspect Ratio	16:9
Projection Technology	LCD
Operating System	Android 11.0
Processor	Allwinner H716 (ARM Cortex-A53 CPU)
Memory	2GB RAM + 32GB ROM
Connectivity	Wi-Fi 6 (2.4G+5G), Bluetooth 5.4, HDMI, USB, Headphone Jack
Special Features	Electric Focus, Automatic Vertical Keystone Correction, 0.6:1 Ultra Short Throw Ratio, Screen Mirroring (AirPlay, Miracast, Screencast)
Dimensions	22 x 12 x 17 cm
Weight	2.76 kg



Allwinner

H716

Advanced Chip, Enjoy the Original Color Picture Quality

Image: A close-up of the Allwinner H716 chip, highlighting its ARM Cortex-A53 CPU and 2GB RAM + 32GB ROM, which powers the Alwniet HY450 projector for advanced performance and original color picture quality.

WARRANTY AND SUPPORT

The Alwniet HY450 Projector comes with a standard manufacturer's warranty. For specific warranty terms and conditions, please refer to the warranty card included in your package or contact Alwniet customer support.

For technical assistance, troubleshooting, or any inquiries regarding your product, please visit the official Alwniet support website or contact their customer service team. Contact information can typically be found on the product packaging or the official brand website.

