Mentech HY300PRO

Mentech HY300PRO Mini Projector User Manual

Model: HY300PRO | Brand: Mentech

1. INTRODUCTION

Welcome to the Mentech HY300PRO Mini Projector user manual. This portable smart projector is designed to transform any space into an immersive viewing experience, whether indoors or outdoors. Featuring a 180° rotatable design, up to 150-inch giant screen projection, built-in Android TV 11, dual-band WiFi 6, and Bluetooth 5.2, it offers seamless entertainment and versatile connectivity. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your new projector.

Figure 1: Mentech HY300PRO Mini Projector Overview. This image highlights the projector's key features including 180° rotation, 150" native 1080P support, WiFi6/BT5.2 connectivity, and Android 11.0, all projected onto a large curved screen.

2. SETUP GUIDE

2.1 Unboxing

Upon opening the package, ensure all components are present:

- Mentech HY300PRO Projector
- Remote Control (batteries not included)
- User Manual
- Power Cord
- HD Cable

2.2 Physical Placement

The projector features a 180° rotatable design, allowing flexible projection onto walls, ceilings, or any flat surface. For optimal viewing, position the projector to achieve your desired screen size, up to 150 inches. The ideal projection distance ranges from 3.33 ft to 12.5 ft, with an optimum throwing distance of 6.6 ft.

Figure 2: 180° Rotatable Design. This image illustrates the projector's ability to instantly project movies onto the ceiling, offering versatile viewing angles.

2.3 Power Connection

Connect the provided power cord to the projector's power input port and then to a power outlet.

2.4 Initial Power On, Focus, and Keystone Adjustment

Press the power button on the projector or the remote control to turn on the device. The projector features an auto keystone correction function, which automatically adjusts the image for a perfectly aligned display, even at an angle. For fine-tuning, use the manual focus ring on the projector body to achieve a sharp image.

Figure 3: Auto & 4P/4D Keystone Correction. This image displays the projector's automatic and manual keystone correction features, along with screen zoom capabilities from 50% to 100%.

2.5 Network Connection

The projector supports dual-band 2.4G/5G/6G WiFi 6 for reduced latency and enhanced responsiveness. Navigate to the 'Networking Setting' in the projector's menu to connect to your home Wi-Fi network.

Figure 4: Dual-Band WiFi 6 Connectivity. This image illustrates the projector's ability to connect with dual-band WiFi in a snap, supporting Android, iOS, and Windows devices.

3. Operating Instructions

3.1 Built-in Android TV 11

The projector comes with a built-in Android 11 operating system, providing instant access to a vast array of content. Popular apps like YouTube and Netflix are pre-installed. You can also download more applications from the AppStore.

Figure 5: Built-in Android 11.0 Interface. This image displays the projector's smart interface with pre-installed apps and various input/output ports (DC, Audio, USB, HDMI).

3.2 Screen Mirroring

Easily mirror content from your Android, iOS, or Windows devices using Miracast, Airplay, or DLNA. This allows you to project your phone or tablet screen directly onto the large display.
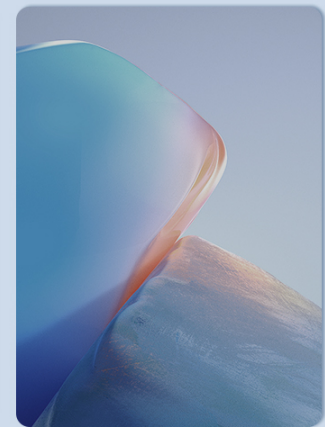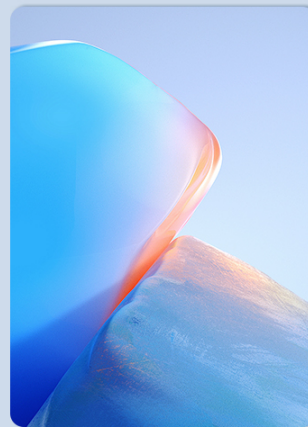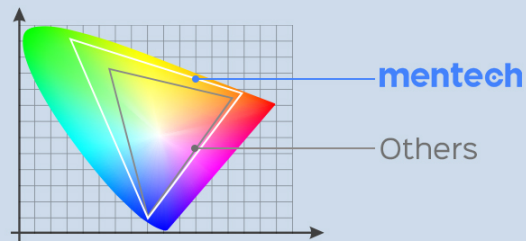
Figure 6: Screen Mirroring Functionality. This image details the projector supporting Miracast, Airplay, and DLNA for seamless content sharing from mobile devices.

3.3 External Device Connectivity

The projector is equipped with HDMI, USB, and audio ports for broad compatibility. Connect laptops, gaming consoles (like Switch, PS5), iPads, TV Sticks, or USB flash drives for diverse media playback.
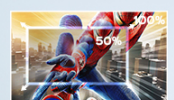

Figure 7: Multi-device Compatibility. This image details the projector's various ports and compatible devices, including laptops, TV sticks, gaming consoles, USB drives, and external audio devices.

3.4 Audio Options

The projector has integrated speakers for clear audio. For an enhanced sound experience, utilize Bluetooth 5.2 to wirelessly connect to external speakers or headphones, providing a clutter-free setup and immersive sound.

Throw ratio: 0.9:1   Projector distance: 3.33ft–12.5ft   Optimum throwing distance: 6.6ft
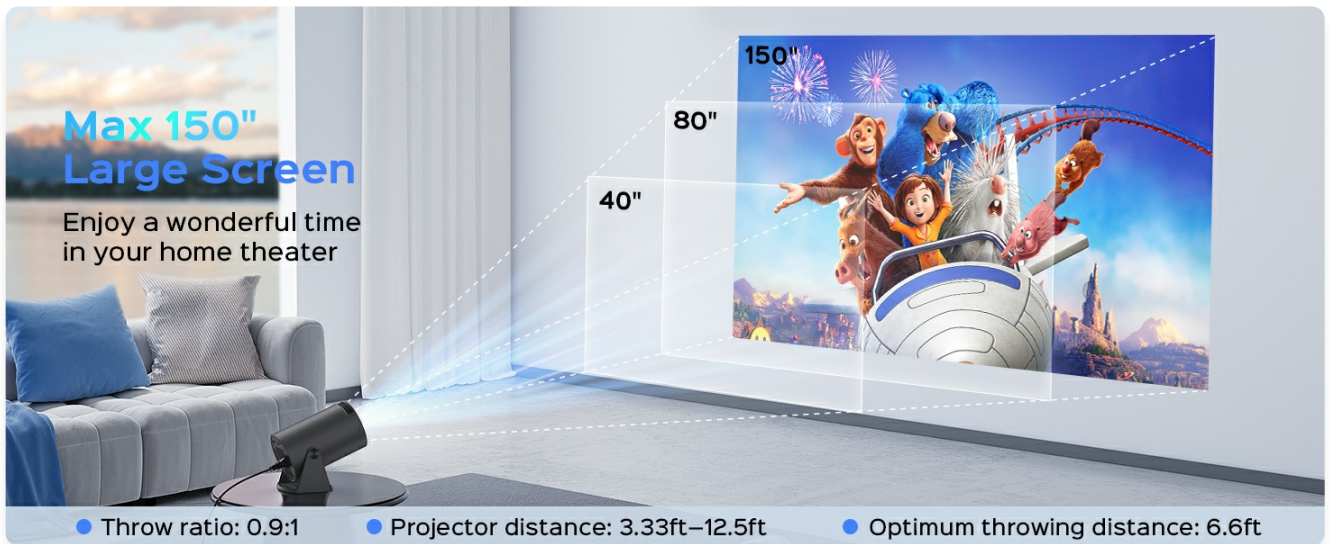
Figure 8: Advanced Bluetooth 5.2. This image shows the projector connecting wirelessly to external speakers for an immersive audio experience.

3.5 Official Product Video

Watch this official video from the seller for a quick overview of the Mentech HY300Pro Mini Projector's features and capabilities.

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Video 1: Mentech HY300Pro Mini Projector. This video provides a brief demonstration of the projector's design, features, and projection quality.

4. Maintenance

4.1 Cooling System

The projector is designed with a unique cooling system that operates quietly at below 25 dB, ensuring a peaceful viewing environment. Ensure proper ventilation around the projector to maintain optimal performance and prevent overheating.
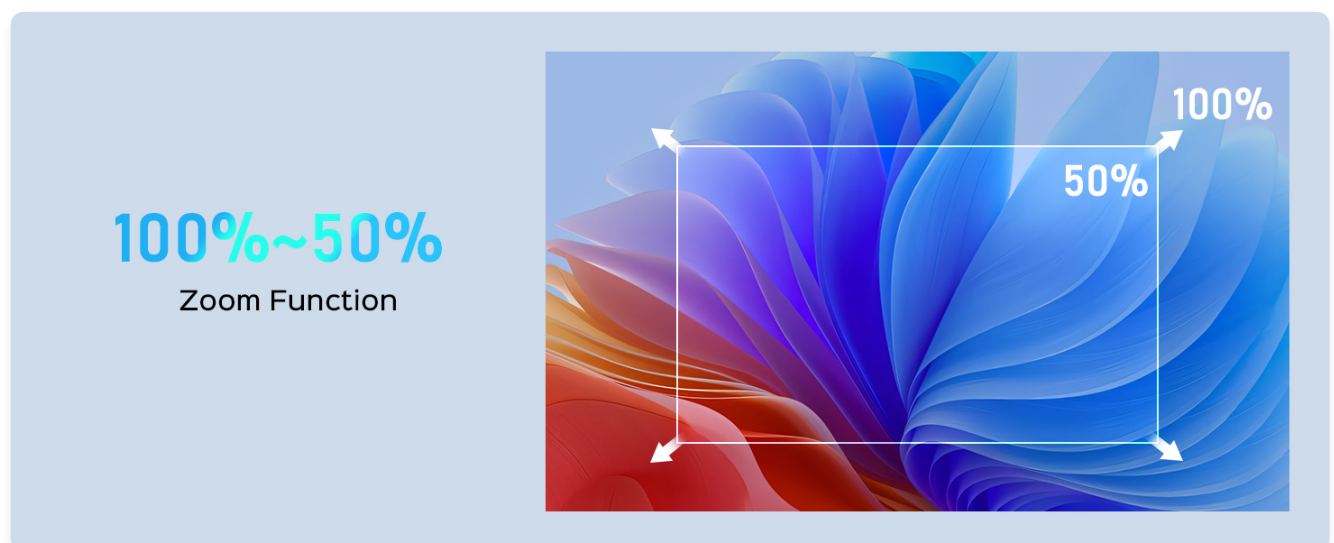

Figure 9: Advanced Cooling System. This image illustrates the internal airflow for efficient cooling, alongside features like built-in speakers and a 50,000-hour lamp life.

4.2 Lens Cleaning

To maintain clear image quality, regularly clean the projector lens using a soft, lint-free cloth specifically designed for optical

lenses. Avoid using abrasive materials or harsh chemicals.

4.3 Storage

When not in use, store the projector in a cool, dry place, away from direct sunlight and extreme temperatures. Use the original packaging or a protective case to prevent dust accumulation and physical damage.

5. TROUBLESHOOTING

Problem	Possible Cause	Solution
No Image / Power	Power cord not connected; Power outlet issue.	Ensure power cord is securely connected. Try a different outlet.
Blurry Image	Incorrect focus; Projector too far/close; Keystone not adjusted.	Adjust the manual focus ring. Reposition the projector. Check auto keystone or adjust manually.
No Sound	Volume too low; External speakers not connected/paired; Source audio issue.	Increase volume. Ensure Bluetooth speakers are paired or external speakers are connected correctly. Check audio settings on the source device.
Wi-Fi Connectivity Issues	Incorrect password; Out of range; Router issue.	Verify Wi-Fi password. Move projector closer to router. Restart router.
Apps Not Working / Connecting	Software issue; Internet connection problem.	Ensure stable internet connection. Check for software updates (automatically pushed via OTA when connected to the internet). Contact customer support if issues persist.

6. SPECIFICATIONS

Feature	Detail
Brand	Mentech
Model Number	HY300PRO
Color	Iron Gray
Native Resolution	1280 x 720P (Supports 4K Decoding via HDMI)
Brightness	280 ANSI Lumens (8500 Lumens)
Contrast Ratio	10000:1
Projection Size	Up to 150 inches
Throw Distance	3.33 ft - 12.5 ft (Optimum: 6.6 ft)

Feature	Detail
Operating System	Android TV 11
Wi-Fi	Dual-Band 2.4G/5G/6G WiFi 6
Bluetooth	Bluetooth 5.2
Ports	HDMI, USB, Audio
Noise Level	Below 25 dB
Lamp Life	Up to 50,000 hours
Dimensions	7.8 x 5.28 x 4.69 inches
Weight	15.8 ounces

7. WARRANTY AND SUPPORT

Mentech is committed to providing excellent customer service and support for your HY300PRO Mini Projector.

- **Customer Support:** 24-hour customer support is available.
- **Return Guarantee:** Enjoy a 30-day unconditional return guarantee.
- **Service:** The product comes with 2 years of service.
- **Technical Support:** Lifetime technical support is provided.

For any inquiries or assistance, please refer to the contact information provided in your user manual or visit the official Mentech store online.
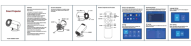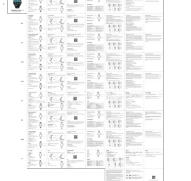

Figure 10: Mentech Customer Service. This image emphasizes the comprehensive support offered by Mentech, including 24/7 customer support, a 30-day return guarantee, 2 years of service, and lifetime technical support.

Software Updates

Software updates are automatically pushed via OTA (Over-The-Air) when connected to the internet. On July 15, 2024, a performance improvement update was released. If you haven't received the update, contact customer support for assistance.

Related Documents - **HY300PRO**

	[Mentech HY300 Pro Portable LED Projector: Specs, Features, and Overview](#) Discover the Mentech HY300 Pro, a compact and versatile portable LED projector. Featuring 200 ANSI lumens, 1080p support, Android 11.0, Wi-Fi, Bluetooth, and auto keystone correction for an immersive viewing experience.
	[Smart Projector HY300 Quick Installation Guide](#) A concise guide to installing and operating the Smart Projector HY300, covering setup, networking, language settings, and projection modes.
	[Magcubic HY300pro+ Smart Projector Quick Installation Guide](#) Concise guide to installing and setting up the Magcubic HY300pro+ smart projector, covering safety, device components, remote functions, settings, and connectivity.
	[HPPUS HY300Pro Smart Projector User Manual and Quick Start Guide](#) Comprehensive guide for the HPPUS HY300Pro Smart Projector, covering setup, settings, connectivity options like Airplay and Miracast, safety instructions, and troubleshooting.
	[Mentech Watch Xe1 User Manual: Features, Specifications & Setup Guide](#) Explore the Mentech Watch Xe1 user manual for detailed setup instructions, product features, technical specifications, and safety guidelines for this Bluetooth sports smartwatch.
	[Mentech G4801DG 100/1000 BASE-T Transformer Product Specification](#) Detailed product specification for the Mentech G4801DG, a 100/1000 BASE-T transformer. Includes mechanical dimensions, electrical characteristics, schematics, packing details, material list, and recommended soldering profile.