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BenQ HT2550

BenQ HT2550 4K UHD HDR Home Theater Projector Instruction Manual

Model: HT2550 | Brand: BenQ

1. Introduction

This manual provides essential information for the setup, operation, maintenance, and troubleshooting of your BenQ HT2550 4K UHD HDR Home Theater Projector. Please read this manual thoroughly before using the projector to ensure optimal performance and safety.

Key Features:

- **True 4K UHD Resolution:** 8.3 million distinct pixels for stunning clarity.
- **Projector-optimized HDR:** HDR10 support with BenQ exclusive Auto HDR color rendition.
- **Cinematic Color Technology:** Reproduces >96% of Rec.709 color gamut.
- **Compact Design:** Light and sleek with Auto vertical Keystone and 1.2x zoom for easy installation.

2. Package Contents

Verify that all items listed below are included in your package:

- BenQ HT2550 Projector
- Remote Control with Battery (RCV015)
- Power Cord (3m)
- User Manual CD (27L)
- Quick Start Guide (21L)
- Warranty Card
- Lens Cover

3. Setup

3.1 Physical Placement

The BenQ HT2550 features a compact design with 1.2x zoom and Auto vertical Keystone, allowing for flexible placement. Consider the throw ratio (1.47 - 1.76) to determine the optimal distance from the screen for your desired image size (60" to 200"

clear image size).

Figure 1: Front view of the BenQ HT2550 projector, showcasing its compact design and lens.

3.2 Connecting Devices

The projector offers various connectivity options:

- **HDMI:** 2 ports (HDMI 1: 2.0 / HDCP 2.2; HDMI 2: 1.4a / HDCP 1.4) for connecting Blu-ray players, gaming consoles, or streaming devices.
- **USB Type A:** 1 port (2.0/Power Supply) for media playback or powering accessories.
- **USB (Type mini B):** 1 port.
- **PC (D-Sub):** 1 port for computer connection.
- **Audio In/Out (3.5mm Mini Jack):** 1 each for external audio devices.
- **RS232 (DB-9pin):** 1 port for control systems.
- **DC 12V Trigger (3.5mm Jack):** 1 port for synchronized screen control.

Figure 2: Rear view of the BenQ HT2550 projector, highlighting the various input and output ports for connectivity.

3.3 Initial Power On and Adjustment

1. Connect the power cord to the projector and a power outlet.
2. Press the power button on the projector or remote control.
3. Adjust the focus and zoom using the rings on the lens.
4. Utilize the vertical keystone adjustment (±40 degrees) to correct image distortion if the projector is not perfectly perpendicular to the screen.

4. Operating the Projector

4.1 Picture Modes

The BenQ HT2550 offers several picture modes to optimize viewing for different content:

- **ISF Disabled:** Bright / Vivid / Cinema / Sport / User 1 / User 2
- **ISF Enabled:** Bright / Vivid / Cinema / Sport / User 1 / User 2 / ISF Night / ISF Day

Select the appropriate mode via the projector's menu or remote control for the best visual experience.

4.2 HDR and 3D Content

The projector supports HDR (High Dynamic Range) for enhanced contrast and color. It also features 3D compatibility with various formats:

- **Frame Sequential:** Up to 1280x720 120Hz
- **Frame Packing:** Up to 1080p 24Hz
- **Top Bottom:** Up to 720p 60Hz

Ensure your content source and 3D glasses (if applicable) are compatible with these formats.

4.3 Audio Output

The projector includes a built-in 5W speaker. For a more immersive audio experience, connect external speakers via the 3.5mm Audio out jack or through your HDMI receiver.

5. Maintenance

5.1 Lamp Life

The projector's lamp has an estimated lifespan depending on the usage mode:

- **Normal Mode:** 4000 hours
- **Economic Mode:** 10000 hours
- **SmartEco Mode:** 8000 hours
- **LampSave Mode:** 15000 hours

Regular cleaning of the lens and ensuring proper ventilation will help prolong the lamp's life and maintain image quality.

5.2 Firmware Updates

BenQ periodically releases firmware updates to improve performance and address issues. As of March 16, 2018, units include Firmware Update 1.0.3. For information on checking your current firmware version or obtaining updates, please refer to the official BenQ support resources.

6. Troubleshooting

Common Issues and Solutions:

- **No Image/Signal:** Ensure all cables (HDMI, PC) are securely connected and the correct input source is selected on the projector. Verify the source device is powered on and outputting a signal.
- **Image Distortion:** Use the keystone adjustment to correct trapezoidal images. Ensure the projector is placed on a stable, level surface.
- **Fuzzy/Unclear Image:** Adjust the focus ring on the lens until the image is sharp. Ensure the lens is clean.
- **Projector Noise:** A faint fan noise is normal. Check if the projector is in "Silence" mode (if available) which might limit resolution. Ensure adequate ventilation to prevent overheating, which can increase fan speed.
- **Light Border Around Image:** This can occur with some projectors. Ensure your screen has a black velvet border or consider LED backlighting around the screen to minimize its visibility.

7. Specifications

Feature	Detail
Projection System	DLP
Native Resolution	3840x2160 (XPR pixel shifting technology)
Resolution Support	VGA (640 x 480) to 4K UHD (3840 x 2160)
Brightness (ANSI lumens)	2200 ANSI Lumens
Contrast Ratio (FOFO)	10,000:1

Display Color	30 Bits (1.07 billion colors)
Native Aspect Ratio	Native 16:9 (6 aspect ratio selectable)
Light Source	Lamp (240W)
Light Source Life (Normal/Economic/SmartEco/LampSave)	4000 / 10000 / 8000 / 15000 hours
Throw Ratio	1.47 - 1.76 (100" @ 3.25 m)
Zoom Ratio	1.2X
Keystone Adjustment	1D, Vertical ± 40 degrees
Clear Image Size (Diagonal)	60" ~ 200"
Speaker	5W x 1
HDMI Ports	2 (HDMI 1: 2.0 / HDCP 2.2; HDMI 2: 1.4a / HDCP 1.4)
USB Type A	1 (2.0/Power Supply)
Dimensions (W x H x D)	13.9 x 5.3 x 10.7 inches
Net Weight	9.2 lbs

8. Warranty and Support

Your BenQ HT2550 projector comes with a warranty. Please refer to the included Warranty Card for detailed terms and conditions specific to your region. For technical assistance, product registration, or further inquiries, please visit the official BenQ support website or contact their customer service.
BenQ is committed to providing excellent customer support. For any firmware-related concerns or assistance, contacting BenQ directly is recommended.

9. Product Videos

Official Product Overview

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Video: BenQ TK800 4K UHD HDR Home Theater Projector Overview. This video provides a general overview of BenQ's 4K HDR projector features, similar to the HT2550 model.

User Experience Highlights

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Video: BenQ HT2550 4k HDR Projector Review. This video offers insights into the user experience and performance of the BenQ HT2550 projector.

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Video: Great Budget 4k Projector with some minor quirks. This video provides a user's perspective on the BenQ HT2550, including its strengths and minor considerations.

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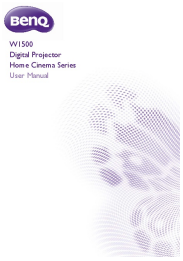
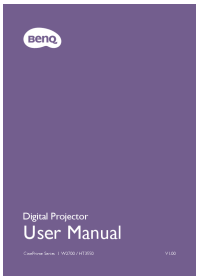
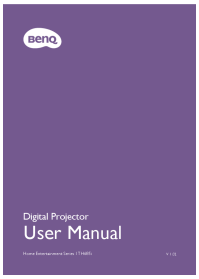
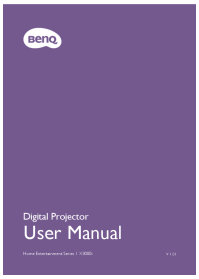
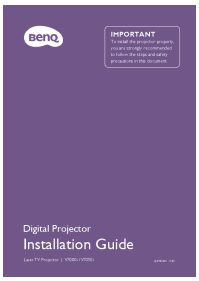
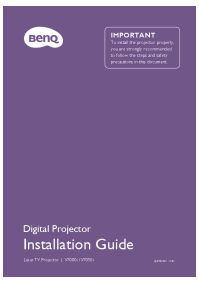
	BenQ W1500 Digital Projector User Manual: Setup and Operation Guide Comprehensive user manual for the BenQ W1500 Digital Projector, covering setup, connectivity, picture and sound adjustments, 3D features, and troubleshooting for an optimal home cinema experience.
	BenQ CinePrime Series W2700/HT3550 4K Digital Projector User Manual Comprehensive user manual for the BenQ CinePrime Series W2700/HT3550 4K digital projector, covering setup, operation, maintenance, troubleshooting, and specifications. Learn how to install, connect, and optimize your projector for the best viewing experience.
	BenQ TH685i Digital Projector User Manual - Setup, Operation, and Specifications Get the most from your BenQ TH685i Digital Projector with this comprehensive user manual. Learn about setup, installation, operation, smart features, picture/sound settings, safety, and troubleshooting for this Android TV-powered home entertainment and gaming projector.
	BenQ X3000i Digital Projector User Manual: Setup, Operation, and Maintenance A comprehensive user manual for the BenQ X3000i Digital Projector, covering installation, operation, menu navigation, maintenance, troubleshooting, and technical specifications for home entertainment use.
	BenQ V7000i/V7050i Laser TV Projector Installation Guide Comprehensive installation guide for the BenQ V7000i and V70500i Laser TV Projectors, covering setup, connections, placement, and screen adjustments for optimal viewing.
	BenQ V7000i/V7050i Laser TV Projector Installation Guide Comprehensive installation guide for the BenQ V7000i and V7050i Laser TV Projectors. Learn how to set up, connect, and adjust your projector for optimal viewing. Includes safety precautions and placement guidelines.