

BenQ TK800

BenQ TK800 4K UHD Home Theater Projector User Manual

Model: TK800

1. PRODUCT OVERVIEW

The BenQ TK800 4K UHD Home Theater Projector delivers stunning 4K UHD image quality with incredible clarity and crisply defined details, thanks to its true 8.3 million pixels. It is designed for optimal performance in well-lit environments, offering perfectly balanced high visual brightness (> 3000lm) and vivid colors (> 92% Rec. 709). The projector features BenQ-optimized HDR for natural Auto HDR color and tone rendering, enhancing brightness and contrast. Its compact design allows for quick and easy installation with vertical keystone correction and 1.2x zoom. Dedicated Football & Sport modes with Cinema Master Audio+2 provide an immersive experience, making you feel like you're in the stadium.

Key Features:

- **True 4K UHD Resolution:** 8.3 million pixels for awe-inspiring clarity.
- **Vivid Colors in Any Ambient Lighting:** 3000 lumens brightness and 92% Rec. 709 color accuracy.
- **Hyper-Realistic HDR10 Quality:** BenQ projector-optimized HDR for enhanced brightness and contrast.
- **Compact Design:** Easy installation with vertical keystone and 1.2x zoom.
- **Immersive Sports Experience:** Dedicated Football & Sport modes with Cinema Master Audio+2.



Figure 1.1: Front view of the BenQ TK800 4K UHD Home Theater Projector, showcasing its compact design and lens.

2. SETUP

2.1 Unpacking and Initial Inspection

Carefully remove the projector and all accessories from the packaging. Verify that all components listed in the 'What's in the Box' section are present and undamaged. Retain the original packaging for future transport or storage.

- BenQ TK800 Projector
- Remote Control with Battery
- Power Cord (region specific)
- Quick Start Guide
- Lens Cover

2.2 Placement

Position the projector on a stable, flat surface or mount it securely to the ceiling. Ensure there is adequate ventilation around the projector to prevent overheating. The ideal distance from the screen will vary based on desired image size. Refer to the 'Throw Ratio' in the specifications for guidance.

2.3 Connections

Connect your video source (e.g., Blu-ray player, gaming console, PC) to the projector using an HDMI cable. The TK800 features two HDMI ports: HDMI 1 (2.0/ HDCP 2.2) and HDMI 2 (1.4a/ HDCP 1.4). For 4K HDR

content, use HDMI 1. Connect the power cord to the projector and then to a power outlet.

- **HDMI:** 2 ports (HDMI 1: 2.0/HDCP 2.2; HDMI 2: 1.4a/HDCP 1.4)
- **USB Type A:** 1 (2.0/Power Supply)
- **USB Type mini B:** 1
- **Audio in (3.5mm Mini Jack):** 1
- **Audio out (3.5mm Mini Jack):** 1
- **RS232 (DB-9pin):** 1
- **DC 12V Trigger (3.5mm Jack):** 1

2.4 Power On and Initial Adjustment

Press the power button on the projector or remote control. Once powered on, adjust the focus and zoom using the rings on the lens. Use the vertical keystone adjustment (± 40 degrees) to correct any trapezoidal distortion of the image, ensuring a perfectly rectangular projection.

3. OPERATING INSTRUCTIONS

3.1 Remote Control Functions

The included remote control provides full functionality for navigating menus, adjusting settings, and selecting input sources. Familiarize yourself with the layout of the buttons for easy operation.

3.2 Picture Mode Selection

The TK800 offers various picture modes optimized for different content and viewing environments. Access the Picture menu to select from options such as Bright, Vivid TV, Cinema, Sport, Football, User1, User2, and 3D. For sports content, the dedicated Football and Sport modes enhance color and audio for an immersive experience.

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Video 3.1: An overview of the BenQ TK800 4K UHD HDR Home Theater Projector's features, including its 4K UHD resolution, HDR capabilities, and suitability for sports viewing. This video highlights the visual quality and immersive experience provided by the projector.

3.3 Audio Settings

The projector includes a built-in 5W speaker. For enhanced audio, connect external speakers or a sound system to the Audio out (3.5mm Mini Jack) port. Adjust volume levels using the remote control.

3.4 3D Compatibility

The BenQ TK800 supports various 3D formats, including Frame Sequential (Up to 1280x720 120Hz), Frame Packing (Up to 1080p 24Hz), and Top Bottom (Up to 1080p 24Hz). To enjoy 3D content, you will need compatible 3D glasses (sold separately) and 3D source material.

4. MAINTENANCE

4.1 Cleaning the Lens

Use a soft, lint-free cloth specifically designed for optical lenses to gently wipe the projector lens. Avoid using abrasive cleaners or excessive force, as this can damage the lens coating. Always ensure the projector is

turned off and cooled down before cleaning.

4.2 Air Filter Maintenance

Regularly check and clean the air filter to maintain optimal performance and prevent overheating. Refer to the full user manual for specific instructions on locating and cleaning or replacing the air filter.

4.3 Lamp Replacement

The projector lamp has a specified lifespan (Normal: 4000 hours, Economic: 10000 hours, Smart Eco: 8000 hours). When the lamp reaches the end of its life, a warning message will appear. Replace the lamp with an authentic BenQ replacement lamp to ensure continued optimal performance and safety. Consult the full user manual for detailed lamp replacement procedures.

5. TROUBLESHOOTING

5.1 No Image on Screen

- Ensure the projector is powered on and the power cord is securely connected.
- Verify that the video source (e.g., PC, Blu-ray player) is turned on and functioning correctly.
- Check the HDMI or other video cables for secure connections at both the projector and the source device.
- Confirm the correct input source is selected on the projector.

5.2 Image is Blurry or Out of Focus

- Adjust the focus ring on the projector lens until the image is sharp.
- Ensure the projector is at the correct distance from the screen for the desired image size.
- Clean the projector lens if there is any dust or smudges.

5.3 Image is Distorted (Trapezoid Shape)

- Use the vertical keystone adjustment feature to correct the image shape.
- Ensure the projector is placed perpendicular to the screen as much as possible.

5.4 No Audio

- Check the volume level on the projector and the source device.
- Ensure audio cables are correctly connected if using external speakers.
- Verify that the audio output settings on your source device are configured correctly.

6. SPECIFICATIONS

Feature	Detail
Display Projection System	DLP
Native Resolution	3840x2160 (XPR pixel shifting technology)
Brightness (ANSI lumens)	3000
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
Light Source Life	Normal 4000 hours, Economic 10000 hours, Smart Eco 8000 hours
Throw Ratio	1.47 - 1.76 (100" @ 10.7ft)
Zoom Ratio	1.2:1
Keystone Adjustment	1D, Vertical \pm 40 degrees
Clear Image Size (Diagonal)	60" ~ 200"
Image Size	30" ~ 300"
Speaker	5W x 1
Power Consumption (Typical)	330W
Acoustic Noise (Typ./Eco.)	33/29dB
Dimensions (W x H x D)	13.9 x 5.3 x 10.7 inches
Net Weight	9.2 lbs

7. WARRANTY AND SUPPORT

For detailed warranty information and technical support, please refer to the official BenQ website or the comprehensive user manual. You can download the full User Manual (PDF) and User Guide (PDF) for the BenQ TK800 projector from the links below:

- [User Manual \(PDF\)](#)
- [User Guide \(PDF\)](#)

For further assistance, contact BenQ customer support through their official channels.