

BenQ TK700

BenQ TK700 4K HDR Gaming Projector User Manual

Model: TK700 | Brand: BenQ

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your BenQ TK700 4K HDR Gaming Projector. Please read this manual thoroughly before using the projector and retain it for future reference. The BenQ TK700 is designed to deliver a high-quality 4K HDR gaming experience with low input lag and vibrant visuals.

2. PACKAGE CONTENTS

Verify that all items listed below are included in your package. If any items are missing or damaged, please contact your retailer.

- BenQ TK700 4K HDR Gaming Projector
- Remote Control
- Power Adapter
- User Manual (this document)

3. PRODUCT OVERVIEW

Familiarize yourself with the physical components and connections of your BenQ TK700 projector.

3.1 Front View



Image 3.1: Front view of the BenQ TK700 projector. This image displays the main projection lens, the front air exhaust vent on the left, and the BenQ branding.

3.2 Top View and Controls



Image 3.2: Top view of the BenQ TK700 projector. This image highlights the control panel buttons for power, menu navigation, and input selection, as well as the manual focus and zoom adjustment rings located near the lens.

3.3 Rear View and Ports

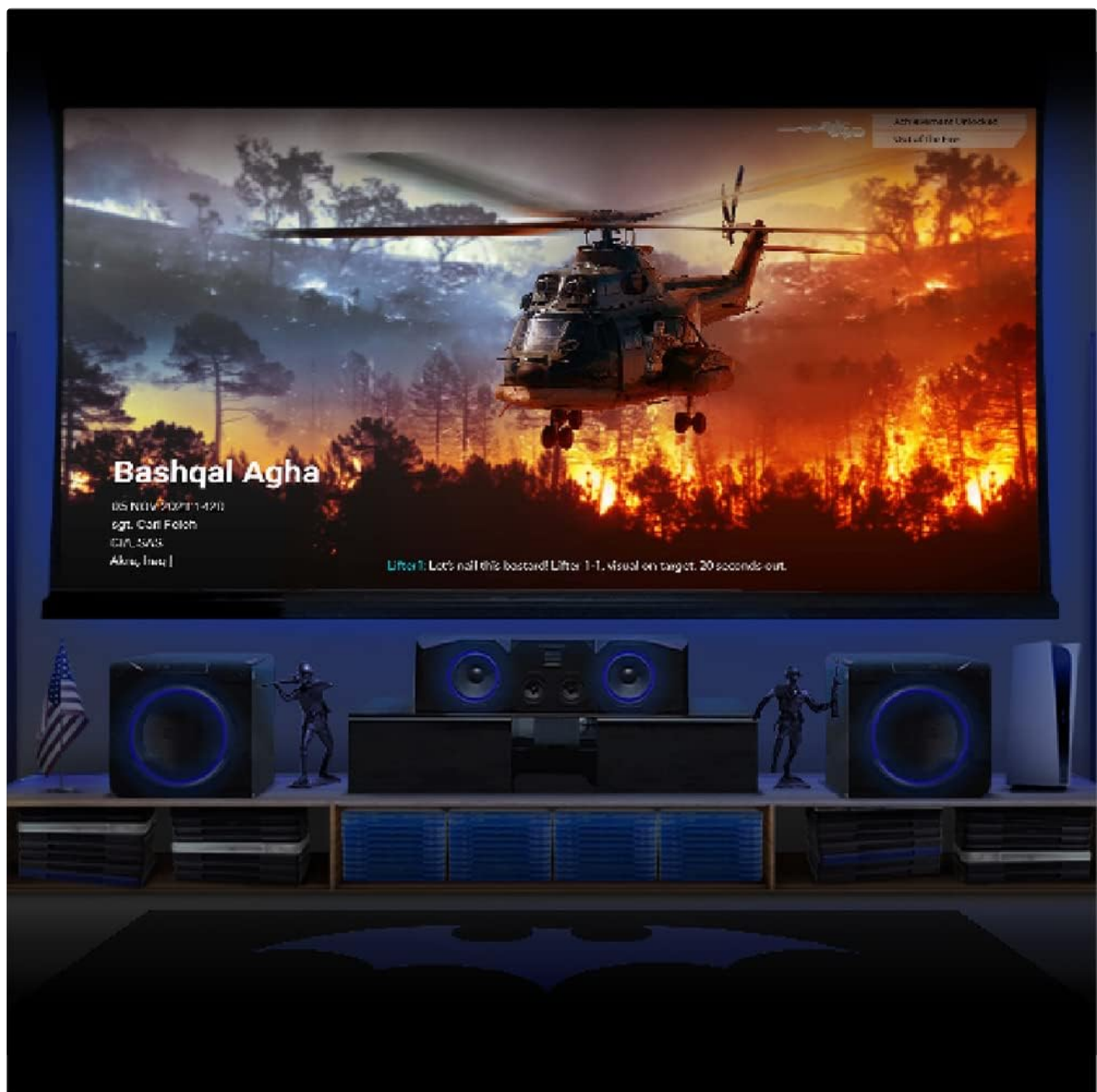


Image 3.3: Rear view of the BenQ TK700 projector. This image details the connectivity options, including two HDMI 2.0 ports (one with Audio Return Channel), an RS-232 port, an Audio Out jack, and a USB port for power (1.5A).

3.4 Dimensions

Celling Mount Holes

Unit:inch/mm

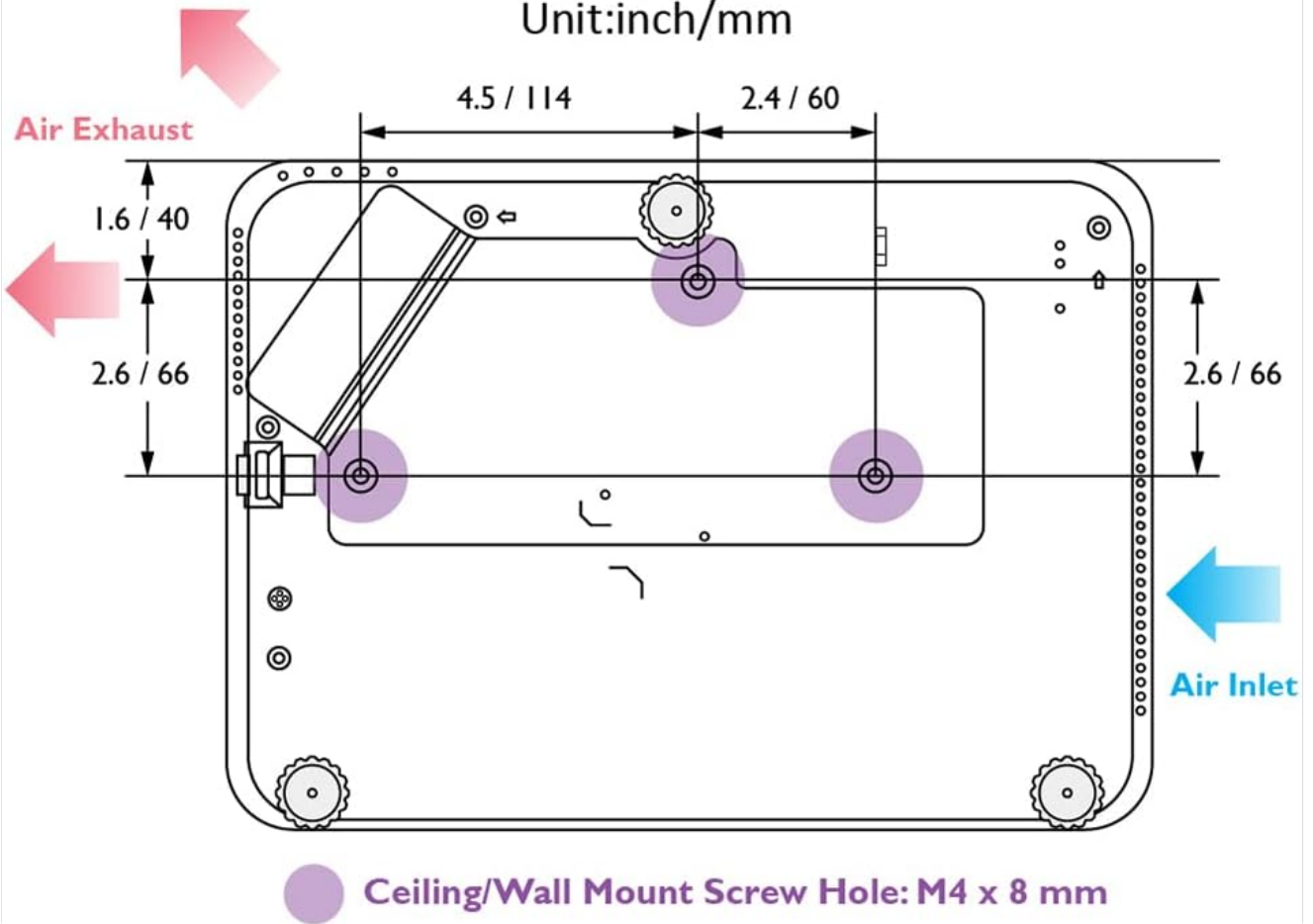


Image 3.4: Dimensions of the BenQ TK700 projector. The projector measures approximately 12.28 inches (312 mm) in width, 9.69 inches (246 mm) in depth, and 4.33 inches (110 mm) in height.

4. SETUP

Follow these steps to set up your BenQ TK700 projector for optimal performance.

4.1 Placement

The BenQ TK700 is designed for standard throw distances. For a 100-inch diagonal image, the projector should be placed approximately 8.2 feet (2.5 meters) from the screen. Refer to the projection distance chart for other screen sizes.

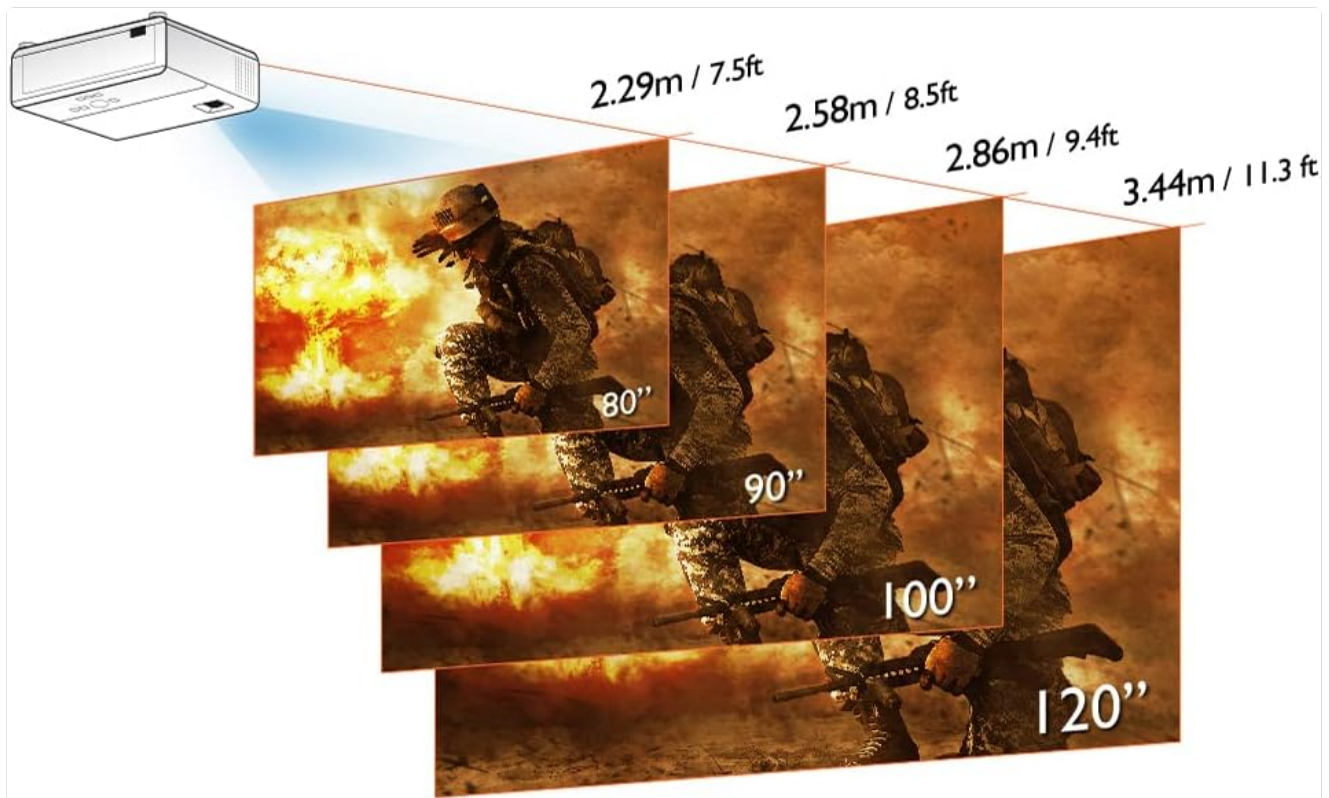


Image 4.1: Projection distance guide. This chart illustrates the approximate throw distances required for various screen sizes, from 80 inches (2.29m / 7.5ft) to 120 inches (3.44m / 11.3ft).

For ceiling mounting, use the designated screw holes on the bottom of the projector. Ensure proper airflow around the unit.



Image 4.2: Ceiling mount hole diagram. This diagram shows the location of the M4 x 8 mm ceiling/wall mount screw holes and indicates the direction of air exhaust and inlet for proper ventilation.

4.2 Connections

1. **Power:** Connect the power adapter to the projector's power inlet and then to a wall outlet.
2. **HDMI Devices:** Connect your gaming consoles (e.g., PS5, Xbox Series X/S, Nintendo Switch), Blu-ray

players, or streaming devices to the HDMI 1 or HDMI 2 ports. HDMI 2 supports Audio Return Channel (ARC) for simplified audio setup with compatible sound systems.

- 3. **Audio Output:** For external audio systems, connect an audio cable from the projector's Audio Out jack to your sound system. Alternatively, use the HDMI 2 (ARC) port with a compatible soundbar or AV receiver.
- 4. **USB:** The USB port provides 5V/1.5A power for compatible devices.

4.3 Power On/Off

- **To Power On:** Press the power button on the projector or the remote control. The power indicator light will turn on.
- **To Power Off:** Press the power button again. A confirmation message may appear; confirm to shut down the projector. Allow the projector to cool down before unplugging it.

5. OPERATING THE PROJECTOR

This section covers basic operation and adjustment of your BenQ TK700 projector.

5.1 Basic Operation

- **Input Source Selection:** Use the 'Source' button on the remote control or projector to cycle through available input sources (HDMI 1, HDMI 2).
- **Menu Navigation:** Use the 'Menu' button to access the on-screen display (OSD) menu. Use the arrow keys to navigate and 'OK' or 'Enter' to select options.

5.2 Picture Settings

- **Focus Adjustment:** Rotate the focus ring on the projector lens until the image is sharp and clear.
- **Zoom Adjustment:** Rotate the zoom ring on the projector lens to adjust the image size without moving the projector.
- **Keystone Correction:** If the projected image appears trapezoidal, use the 2D keystone correction feature in the OSD menu to square the image.

TK700
4K 60Hz: 16.67ms (4K output)
4K 30Hz: 33ms
1080p 60Hz: 16.67ms
1080p 120Hz: 8.33ms
1080p 240Hz: 4ms

Image 5.1: Keystone correction example. This diagram demonstrates how keystone correction can digitally adjust a distorted, trapezoidal image back into a rectangular shape.

- **Picture Modes:** Select from various picture modes (e.g., Bright, Cinema, Game, HDR Game) to optimize image quality for different content types.

- **HDR Support:** The TK700 supports 4K HDR content, enhancing contrast and color detail in compatible media.
- **Black Detail Enhancement:** This feature helps reveal details in dark scenes without over-brightening other areas.

5.3 Audio Settings

The projector features a built-in 5W speaker. For enhanced audio, connect to an external sound system.

- **Volume Control:** Adjust the volume using the remote control.
- **Audio Modes:** Select from various audio modes, including 'Game Sound Mode', to optimize sound for different content.
- **eARC Support:** HDMI 2 supports eARC for high-quality audio pass-through, including Dolby Atmos and 7.1-Channel audio, to compatible external sound systems.

5.4 Gaming Features

The BenQ TK700 is optimized for gaming with low input lag.

- **Low Input Lag:** Experience responsive gameplay with input lag as low as 16ms at 4K/60Hz and 4ms at 1080p/240Hz.



Image 5.2: Input lag specifications for the TK700. The table details input lag values: 16.67ms at 4K 60Hz, 33ms at 4K 30Hz, 16.67ms at 1080p 60Hz, 8.33ms at 1080p 120Hz, and 4ms at 1080p 240Hz.

- **Game Mode:** Activate 'Game Mode' for optimized picture and audio settings tailored for gaming.

5.5 3D Functionality

The projector is 3D-ready. To enjoy 3D content, you will need compatible 3D glasses and 3D source material.

6. MAINTENANCE

Proper maintenance ensures the longevity and performance of your projector.

6.1 Cleaning

- **Projector Casing:** Use a soft, lint-free cloth slightly dampened with water or a mild cleaner. Avoid abrasive cleaners.
- **Lens:** Use a lens cleaning brush or a soft, dry microfiber cloth specifically designed for optical lenses. Do not use liquid cleaners directly on the lens.
- **Air Vents:** Periodically clean the air vents with a soft brush or a vacuum cleaner to prevent dust buildup, which can affect cooling.

6.2 Lamp Replacement

The BenQ TK700 uses a projection lamp. The lamp has a finite lifespan, and its brightness will decrease over time. When the lamp reaches the end of its life, a warning message will appear, and the lamp indicator light may illuminate. Refer to the full user manual for detailed instructions on safe lamp replacement or contact qualified service personnel.

6.3 Storage

If the projector will not be used for an extended period, store it in a cool, dry place, away from direct sunlight and extreme temperatures. Cover the lens with its cap to protect it from dust.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your projector. For more detailed troubleshooting, consult the comprehensive user manual or BenQ's support resources.

- **No Image:**
 - Ensure the projector is powered on and the power cable is securely connected.
 - Verify that the correct input source is selected.
 - Check the HDMI cable connection between the projector and the source device.
- **Image is Blurry:**
 - Adjust the focus ring on the projector lens.
 - Ensure the projection surface is flat and the projector is stable.
- **Image is Distorted (Trapezoidal):**
 - Use the keystone correction feature in the OSD menu to adjust the image.
 - Try to position the projector as perpendicular to the screen as possible.
- **No Sound:**
 - Check the volume level on the projector and any connected audio system.
 - Ensure audio cables are correctly connected or that ARC is properly configured if using HDMI 2.
 - Verify the audio output settings on your source device.
- **Remote Control Not Working:**
 - Replace the batteries in the remote control.
 - Ensure there are no obstructions between the remote and the projector's IR receiver.

8. SPECIFICATIONS

Feature	Specification
Model Number	TK700
Display Resolution	3840 x 2160 (4K UHD)
Brightness	3200 ANSI Lumens

Connectivity Technology	HDMI (2x HDMI 2.0b, HDCP 2.2, HDMI 2 with Audio Return)
Special Features	3D-Ready, 4K Support, Built-In 5W Speaker, Digital Keystone Correction, Low Input Lag (16ms@4K/60Hz, 4ms@1080p/240Hz)
Recommended Uses	Gaming
Product Dimensions	12.28 x 9.69 x 4.33 inches (312 x 246 x 110 mm)
Item Weight	6.8 pounds (3.08 kg)
Manufacturer	BenQ

9. WARRANTY AND SUPPORT

BenQ products are manufactured to the highest quality standards. For information regarding your product's warranty, please refer to the warranty card included in your package or visit the official BenQ website for your region. For technical support, driver downloads, or service inquiries, please visit the BenQ support page or contact their customer service directly.

Online Support: www.benq.com/en-us/support.html

ASK A QUESTION ABOUT THIS MANUAL

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Model number, symptoms, what you tried, or the section of the manual you are using.

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