

BEITONG KP20

BEITONG KP20 Wireless Controller Instruction Manual

Model: KP20

1. INTRODUCTION

The BEITONG KP20 is a multiplatform intelligent wireless controller designed for an enhanced gaming experience across various devices. It features advanced TMR joysticks, 3-mode Hall effect triggers, and a 1000Hz report rate for precision and responsiveness. This manual provides detailed instructions for setting up, operating, and maintaining your controller.



Image 1: BEITONG KP20 Competitive Gaming Controller.

2. PRODUCT OVERVIEW AND FEATURES

The BEITONG KP20 controller is engineered with several key features to optimize your gameplay:

- **Ultra-Precise TMR Joysticks:** Offers exceptional durability, smoothness, sensitivity, and precision with a 0.0031% drift rate and >5400 resolution.
- **Pro-Grade ABXY Buttons:** Engineered with mechanical switches for fast inputs, featuring a 70gf actuation force and 0.3mm travel distance.
- **3-Mode Hall Effect Triggers:** Adjustable linear triggers provide smooth and responsive control for various game genres.

- **6-Axis Gyroscope:** Enables motion-controlled gameplay for compatible titles.
- **Memory Back Buttons:** Two customizable buttons for additional functions and macros.
- **Enhanced Mechanical Buttons & Hybrid D-Pad:** Durable buttons and an 8-way D-pad for precise directional control.
- **Multi-Platform Compatibility:** Seamlessly switch between PC, Switch, Steam, iOS, and Android.
- **Multiple Connectivity Options:** Supports wired, Bluetooth, and 2.4GHz wireless connections.
- **Software Customization:** Personalize settings via the Beitong Game Controller Assistant.
- **Smart Wake-Up Charging Dock:** Convenient charging and instant reconnection upon pickup.



Image 2: The BEITONG KP20 Wireless Controller with its included charging tower.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- BEITONG KP20 Wireless Controller
- Charging Tower
- USB-C Cable (for charging and wired connection)

- 2.4G Wireless Dongle (may be stored in the controller or charging dock)
- User Manual (this document)

4. SETUP

4.1. Charging the Controller

Before first use, fully charge the controller. Place the controller onto the charging tower. The RGB indicator on the charging dock will show the charging status. The controller automatically recharges when docked and can be picked up to instantly resume gaming.



Image 3: The Smart Charging Dock with RGB indicator for the BEITONG KP20 controller.

4.2. Connecting the Controller

The BEITONG KP20 supports three connection modes: Wired, Bluetooth, and 2.4GHz Wireless. Use the mode switch on the back of the controller to select your desired connection type.

- **Wired Connection:** Connect the controller directly to your PC or compatible device using the provided USB-C cable.
- **2.4GHz Wireless Connection:** Insert the 2.4G wireless dongle into a USB port on your PC or Android TV. The

controller will automatically connect.

- **Bluetooth Connection:** Activate Bluetooth on your device (Windows, Steam Deck, Nintendo Switch, iOS, Android). Put the controller into Bluetooth pairing mode (refer to the controller's specific button combination for pairing, usually holding a specific button like 'Home' or 'Pair'). Select 'BEITONG KP20' from your device's Bluetooth list.

To switch between platforms, use the dedicated platform button on the rear of the controller. Pressing the Home button will typically auto-reconnect the controller to the last paired device.



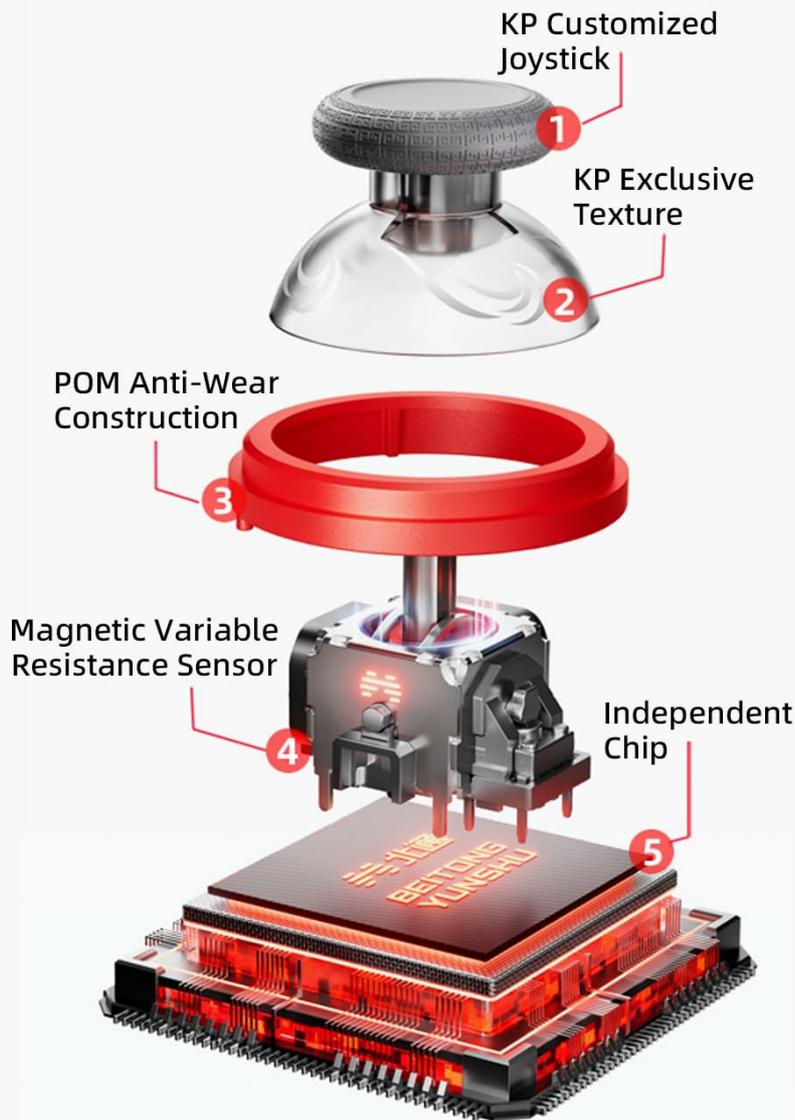
Image 4: Overview of the three available connection modes for the BEITONG KP20 controller.

5. OPERATING INSTRUCTIONS

5.1. TMR Joysticks

The controller features TMR (Tunnel Magnetoresistance) joysticks, offering superior accuracy and longevity compared to traditional potentiometers. These joysticks provide a smooth, drift-free experience with high resolution, ideal for precise movements in games.

BEITONG TMR Electromagnetic Joystick



Stability > 5400+
Overclocking Resolution
Accuracy ↑

Return deviation
0.0031%
Stability ↑

0 contact wear and tear
Smoothness ↑

Wireless Stability
≥1000Hz+
Sensitivity ↑

Ultra 5 million+
Lifetime
Durability ↑

Image 5: Detailed diagram illustrating the components and benefits of the BEITONG TMR Electromagnetic Joystick.

5.2. ABXY Buttons

The ABXY face buttons utilize mechanical microswitches, ensuring a tactile click and rapid response time. This design minimizes input lag and provides satisfying feedback for competitive gaming.



Image 6: Illustration highlighting the ABXY mechanical microswitches for fast response.

5.3. Hall Effect Triggers

The Hall effect linear triggers offer three adjustable modes, allowing you to customize their travel distance and sensitivity. This is beneficial for different game types, providing precise control for racing games or quick actuation for shooters.



Image 7: Diagram detailing the Hall Effect Linear Trigger, including its locking function and precision.

5.4. D-Pad

The 8-way hybrid D-pad provides accurate directional input, suitable for fighting games and platformers where precise movement is critical.

5.5. Programmable Back Buttons

The controller includes two cloud-memory back buttons (M1 and M2) that can be customized to perform various functions or complex macros. This allows for quick execution of commands without repositioning your thumbs from the main controls.

3 Programmable Keys

Enables full key mapping, including joystick controls. Specifically designed for competitive gamers with various grip preferences



Image 8: The three programmable keys, including M1, M2, and the Turbo button, located on the back of the controller.

5.6. 6-Axis Gyroscope

A built-in 6-axis gyroscope enables motion-controlled gameplay, enhancing immersion and control in compatible games, particularly on platforms like Nintendo Switch.

Perfect Choice For NS



Immersive
Gaming



Precision
Controls



Built-in
6-axis gyro



Image 9: The BEITONG KP20 controller, emphasizing its 6-axis gyro capability for Nintendo Switch compatibility.

5.7. Turbo Function

The Turbo function allows for continuous firing or repeated button presses with a single hold, reducing fatigue and providing an advantage in certain game scenarios. This function can be mapped to various buttons.



Image 10: Illustration of the Turbo and Mapping function, alongside the 5-speed adjustable shock feature.

5.8. Vibration Feedback

The controller incorporates smart rumble motors that provide varying vibration feedback based on in-game scenarios, enhancing immersion. The intensity of this feedback can be adjusted.

SMART RUMBLE MOTORS

Provides different vibration feedback based on game scenarios recognized by artificial intelligence



Image 11: Visual representation of the Smart Rumble Motors delivering varied vibration feedback.

5.9. Software Customization

Utilize the Beitong Game Controller Assistant software to personalize various settings, including dead zones, turbo speed, vibration intensity, and RGB lighting effects. This software allows for fine-tuning the controller to your preferences.

6. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your BEITONG KP20 controller.

- **Cleaning:** Use a soft, dry cloth to wipe the controller. For stubborn dirt, slightly dampen the cloth with water or a mild cleaning solution. Avoid harsh chemicals or abrasive materials.
- **Storage:** Store the controller in a cool, dry place away from direct sunlight and extreme temperatures. When not in use, docking it on the charging tower is recommended.
- **Battery Care:** Avoid completely draining the battery frequently. Charge the controller regularly, even if not in constant use, to maintain battery health.
- **Avoid Physical Impact:** Protect the controller from drops or impacts, which can damage internal components.

7. TROUBLESHOOTING

If you encounter issues with your BEITONG KP20 controller, refer to the following common problems and solutions:

Problem	Possible Cause / Solution
Controller does not power on.	Battery may be depleted. Place the controller on the charging dock or connect via USB-C cable to charge.
Unable to connect wirelessly (Bluetooth/2.4GHz).	<ul style="list-style-type: none">• Ensure the mode switch on the back is set correctly for Bluetooth or 2.4GHz.• For Bluetooth, ensure the controller is in pairing mode and visible to your device.• For 2.4GHz, ensure the dongle is securely inserted and recognized by your device.• Try restarting the controller and the host device.• Ensure no other wireless devices are causing interference.
D-Pad inputs are inaccurate or sticky.	This may indicate a manufacturing defect. Ensure the D-pad is clean and free of debris. If the issue persists, contact customer support.
Software (Beitong Game Controller Assistant) issues.	<ul style="list-style-type: none">• Ensure you download the software from the official BEITONG website to avoid potential security risks.• Check for software updates.• Ensure your operating system is compatible.
Buttons feel mushy or unresponsive.	Ensure the buttons are clean. If the issue is persistent and affects multiple buttons, it may indicate a hardware issue.
Controller disconnects frequently.	<ul style="list-style-type: none">• Ensure the controller is within range of the receiver (dongle or Bluetooth device).• Check for low battery.• Minimize wireless interference from other devices.• Ensure firmware is up to date.

8. SPECIFICATIONS

Feature	Detail
Model	KP20
Connectivity	Wired (USB-C), Bluetooth 5.3, 2.4GHz Wireless
Joysticks	TMR (Tunnel Magnetoresistance)
Triggers	3-Mode Hall Effect Linear Triggers
Report Rate	Up to 1000Hz (wireless)

Feature	Detail
Gyroscope	Built-in 6-axis
Programmable Buttons	2 Back Buttons (M1, M2)
Vibration	Smart Rumble Motors (adjustable)
Compatibility	PC, Nintendo Switch, Steam, iOS, Android
Dimensions	11.69 x 5.98 x 3.78 inches (Package)
Item Weight	1.68 Pounds
Batteries	1 AA batteries required (included)
Manufacturer	BEITONG
Release Date	June 27, 2025

9. WARRANTY AND SUPPORT

For warranty information, technical support, or further assistance, please visit the official BEITONG store or contact BEITONG customer service. Keep your purchase receipt for warranty claims.

BEITONG Store: <https://www.amazon.com/stores/BEITONG/page/5A1CFBDD-644A-4FEC-8458-932FAA41849B>