

BEITONG KP40

BEITONG KP40 Wireless Controller User Manual

Comprehensive instructions for setup, operation, and maintenance of your BEITONG KP40 Wireless Controller.

1. INTRODUCTION

This manual provides detailed instructions for the BEITONG KP40 Wireless Controller. Please read this guide thoroughly to ensure proper use and to maximize your gaming experience across various platforms including PC, Switch, Android, and Steam.



Figure 1: BEITONG KP40 Wireless Controller and 2.4G USB Dongle.

2. PRODUCT OVERVIEW

The BEITONG KP40 is a high-performance wireless controller designed for precision and versatility. Key features include:

- **Adjustable TMR Joysticks:** Offers customizable tension (30-90gf) for precise control and durability.
- **Dual TMR Triggers:** Provides rapid, contactless, and frictionless input with up to 0.1mm precision.
- **Optical Buttons:** Faster response times and extended lifespan compared to traditional buttons.
- **Hybrid D-Pad:** 8-direction sensitivity for accurate input, especially in fighting games.
- **Multi-Platform Compatibility:** Supports PC, Switch/Switch 2, Steam, iOS, and Android.
- **Multiple Connection Modes:** Wired, Bluetooth, and 2.4GHz wireless with 1000Hz+ polling rate.
- **6-Axis Gyro Motion:** Enables motion control in supported games.
- **Turbo Control:** Simplifies complex actions with one-click combo execution.
- **Software Customization:** Personalize joystick dead zones, turbo speed, vibration, and RGB lighting.
- **Programmable Back Paddles:** Two mappable back keys (M1, M2) for enhanced control.

Beitong TMR Electromagnetic Joysticks

Linear output brings higher Precision
More durability and More longevity comparable than Hall Effect Sticks

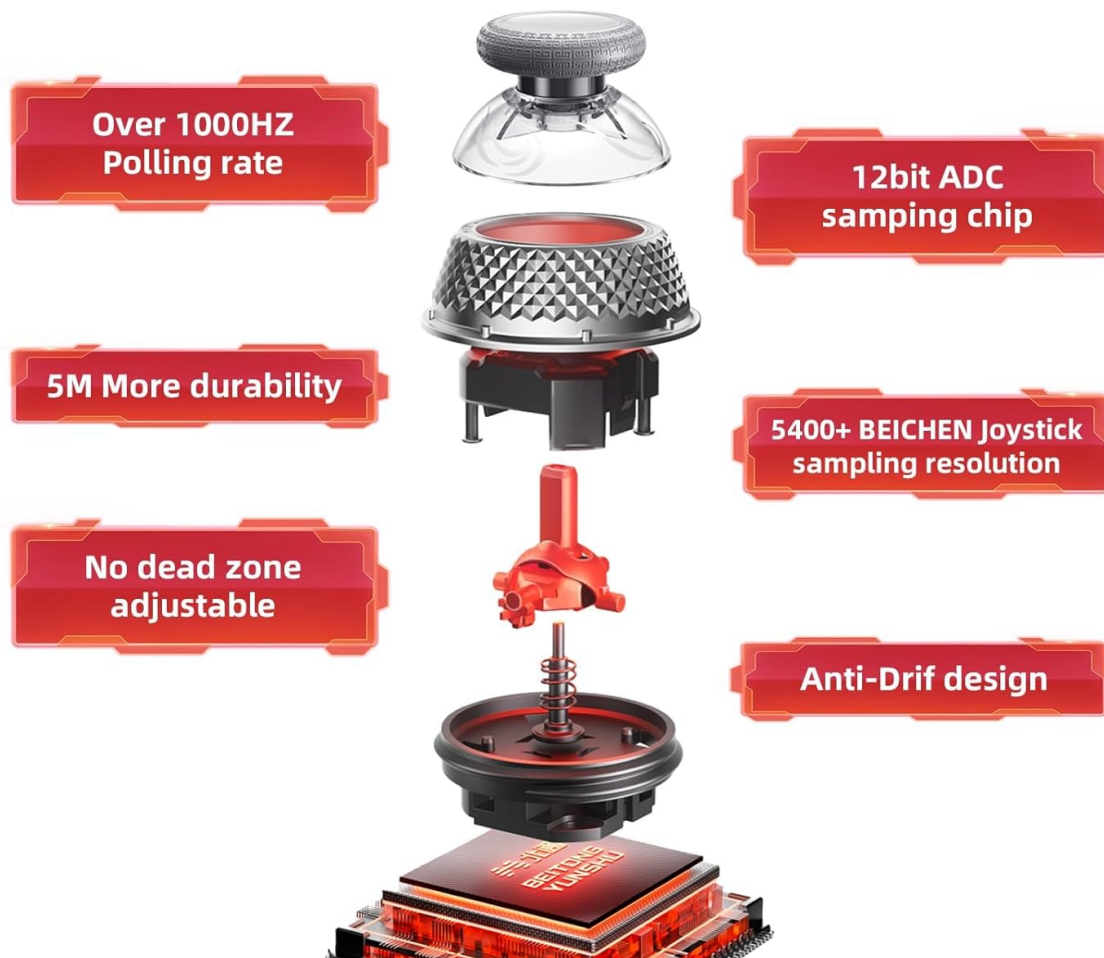


Figure 2: Exploded view of TMR Electromagnetic Joysticks highlighting features like 1000Hz polling rate, 12bit ADC, 5M durability, 5400+ resolution, no dead zone, and anti-drift design.

Joystick with adjustable force on the lever

Beitong Continuous tension adjustment without levels (30-90gf)

30gf

90gf

Rotating the left joystick to the left makes it easier to adjust allowing for quicker and more agile movement



Rotating the right joystick to the right makes it heavier to adjust helping improve aiming precision

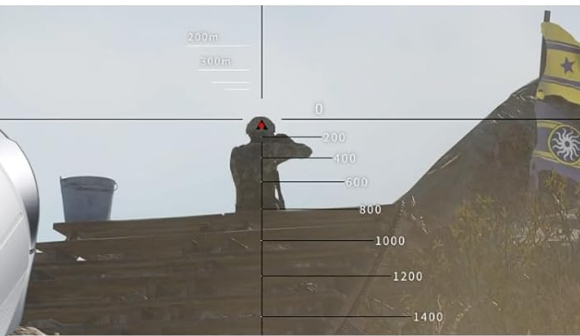


Figure 3: Illustration of adjustable joystick tension. Rotating left for lighter feel (30gf) for agile movement, rotating right for heavier feel (90gf) for aiming precision.

Enhanced Optical Axis Keys

For a quicker, lighter, and sleeker experience that feels more comfortable than mechanical type

More rapidly

More smooth

More clear



Figure 4: Enhanced Optical Axis Keys, offering rapid, smooth, and clear input.

ENHANCED OPTICAL AXIS BUTTONS



0.3mm
Fine-Tuned Stroke

More rapidly

65gf
Pressing Strength

More smooth

10 Million
Presses

More clear

Figure 5: TMR Linear Trigger mechanism, providing 0.1mm accuracy, frictionless operation, and touch-free electromagnetic sensing.

3. SETUP AND CONNECTION

The BEITONG KP40 controller supports multiple connection methods:

3.1. 2.4GHz Wireless Connection (PC/Switch Docked)

1. Insert the 2.4GHz USB dongle into an available USB port on your PC or Switch dock.
2. Turn on the controller. It will automatically attempt to connect to the dongle.
3. The indicator light on the controller will stabilize once connected.

3.2. Bluetooth Connection (PC/Switch/Android/iOS)

1. Ensure your device's Bluetooth is enabled.
2. On the controller, press and hold the Bluetooth pairing button (refer to controller diagram for location) until the indicator light flashes rapidly.
3. On your device, search for new Bluetooth devices and select "BEITONG KP40" from the list.
4. The controller's indicator light will become solid once paired.

3.3. Wired Connection (PC/Switch)

1. Connect the controller to your PC or Switch dock using a USB-C cable.
2. The controller will automatically be recognized and function in wired mode.

4. OPERATING INSTRUCTIONS

4.1. Multi-Platform Switching

The controller features a dedicated button to switch between supported platforms. Locate the platform switch button on the back of the controller (labeled S/B/NS/APP) and press it to cycle through modes for PC (S), Bluetooth (B), Nintendo Switch (NS), or App (APP) for customization.

4.2. TMR Joysticks and Adjustable Tension

The TMR joysticks offer adjustable tension. To modify the tension, gently rotate the ring at the base of each joystick. Rotating counter-clockwise will decrease tension (30gf) for quicker, more agile movements, while rotating clockwise will increase tension (90gf) for improved aiming precision.

4.3. TMR Triggers

The TMR triggers provide precise and responsive input. They can operate in two modes:

- **Micro-Switch Trigger:** For ultra-fast response, ideal for shooting games.
- **Analog Linear Trigger:** For pressure-sensitive action, suitable for racing games.

Trigger modes can be adjusted via the BEITONG Gamepad Assistant software.

4.4. Optical Buttons and Hybrid D-Pad

The optical buttons provide rapid and smooth feedback. The Hybrid D-Pad offers enhanced directional accuracy. These features are designed to improve response time and control in various game genres.

4.5. 6-Axis Gyro Motion Control

The built-in 6-axis gyroscope enables motion control functionality in compatible games. This allows for intuitive aiming and movement based on the controller's orientation.

2 Programmable Back Paddle Keys

Execute combos with a single click, simplifying the complex and speeding up combat.



Figure 6: Visual representation of 6-axis gyro motion control.

4.6. Turbo Function

Activate the Turbo function by pressing the "Turbo" button followed by the desired action button. This allows for rapid, repeated input of that button, simplifying combos or continuous actions. Press the "Turbo" button again with the same action button to deactivate.

4.7. Programmable Back Paddles (M1, M2)

The two back paddles (M1 and M2) can be programmed to replicate any other button on the controller. This allows for quick access to frequently used commands without repositioning your thumbs.

3 Programmable Keys

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



Figure 7: Rear view of the controller highlighting the M1 and M2 programmable back paddles and the platform switch.



Figure 8: Illustration of the two programmable back paddle keys (M1, M2) and their function.

4.8. Vibration Intensity

The controller features dual vibration motors with 5 adjustable intensity levels for an immersive gaming experience. These settings can be customized through the BEITONG Gamepad Assistant software.



Anti-slip grip

The controller is designed with an ergonomic grip featuring fine, non-slip lines that are sweat-resistant ensuring comfortable play for hours

Figure 9: Visual representation of the controller's dual vibration motors and adjustable intensity levels.

5. SOFTWARE CUSTOMIZATION (BEITONG GAMEPAD ASSISTANT)

The BEITONG Gamepad Assistant software allows for extensive customization of your controller's settings. This includes:

- Adjusting joystick dead zones and response curves.
- Configuring trigger dead zones and linearity.
- Mapping buttons and back paddles.
- Setting turbo speed.
- Modifying vibration strength.
- Customizing RGB lighting effects and colors.

To download the software, visit the official BEITONG website or scan the QR code provided in the product packaging.

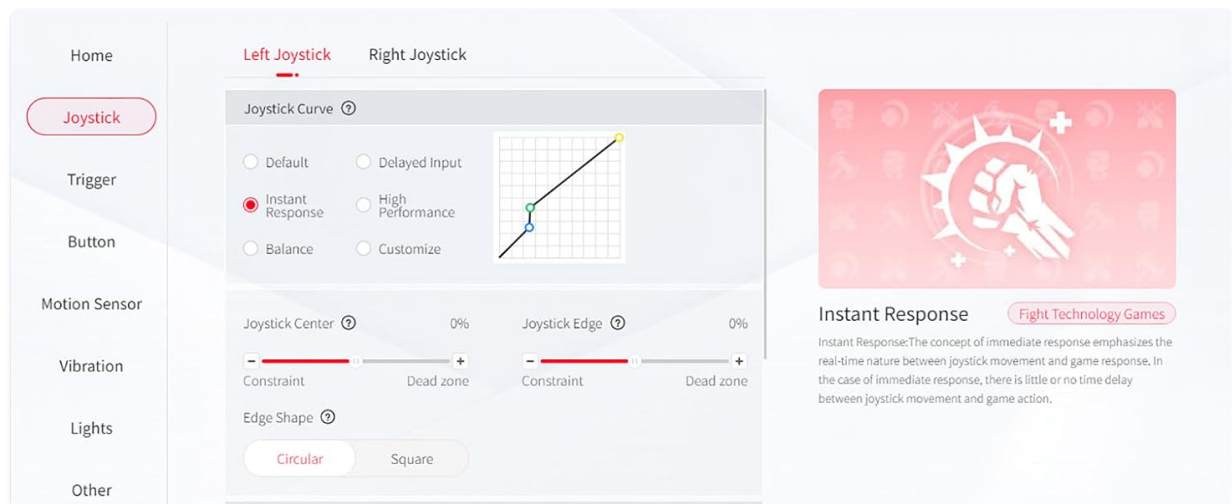


Figure 10: BEITONG Gamepad Assistant software interface, showing various customization options.

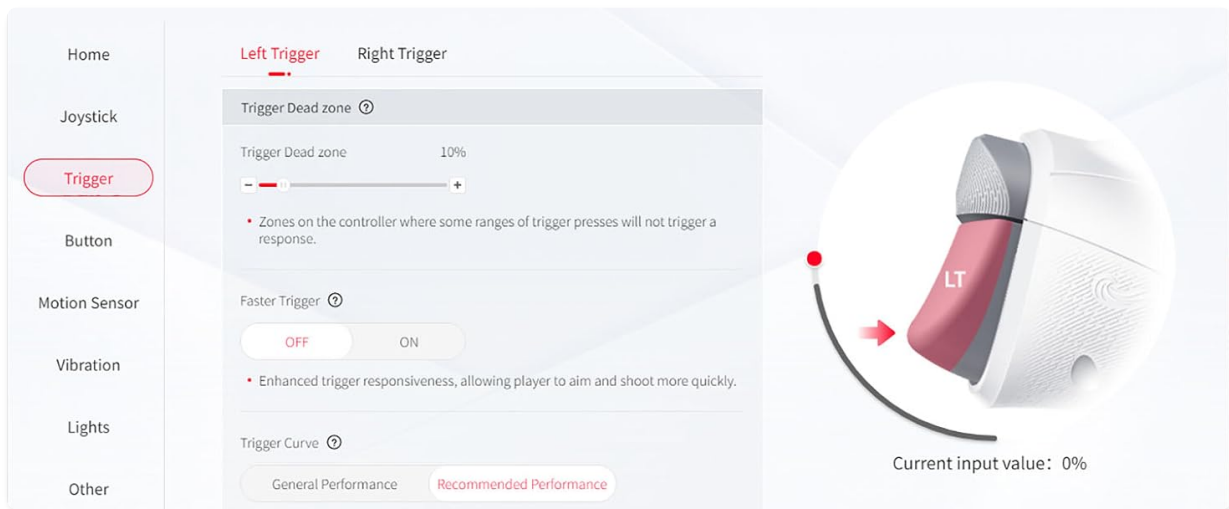


Figure 11: Joystick customization screen within the BEITONG Gamepad Assistant, showing options for joystick curve, center, edge, and shape.

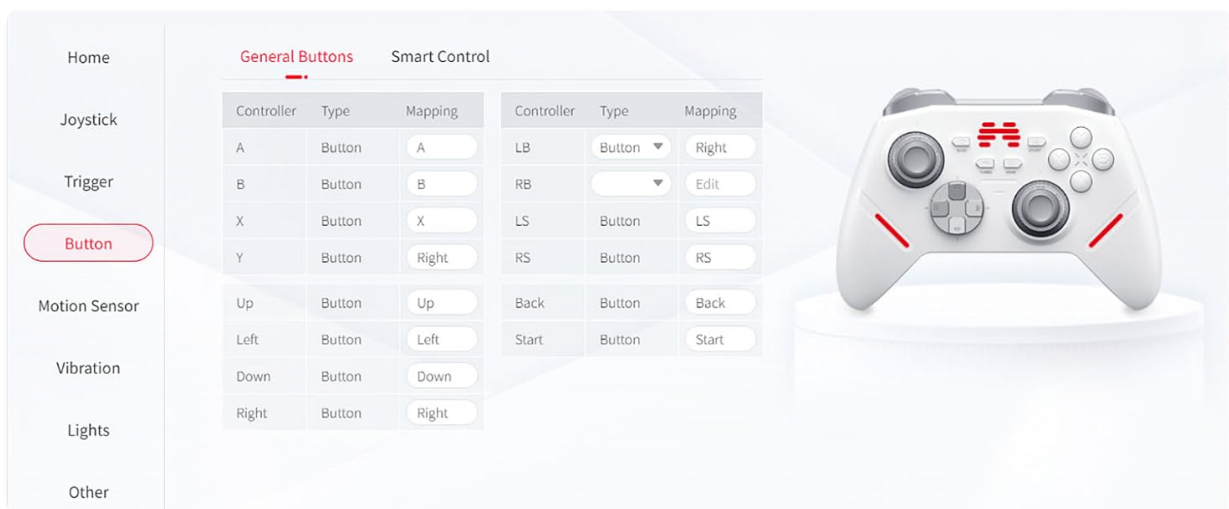


Figure 12: Trigger customization screen within the BEITONG Gamepad Assistant, showing options for trigger dead zone and faster trigger activation.

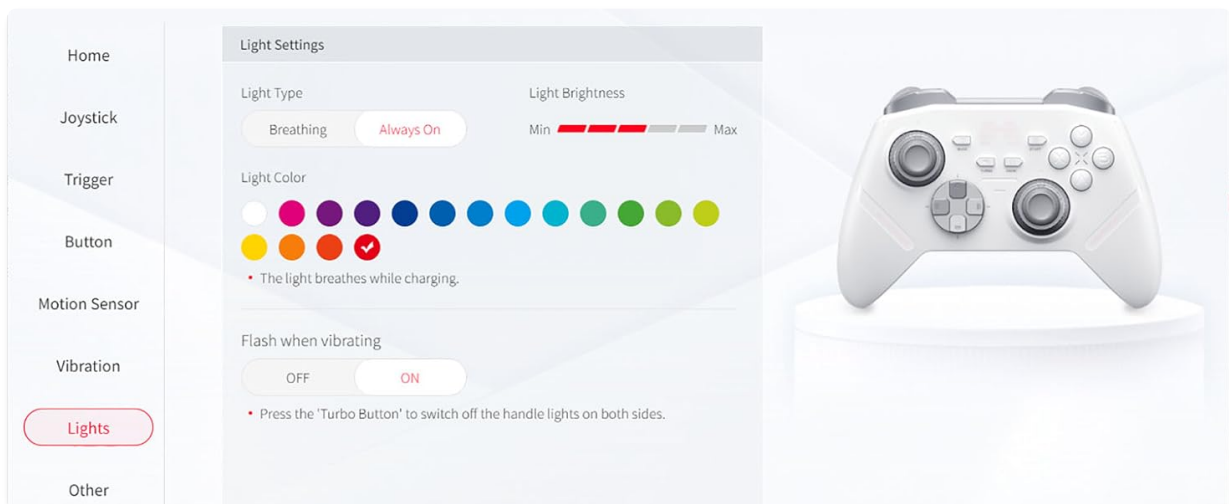


Figure 13: Button mapping screen within the BEITONG Gamepad Assistant, allowing users to reassign general buttons.



Figure 14: Light settings screen within the BEITONG Gamepad Assistant, offering options for light type, brightness, color, and flash on vibration.

6. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the controller. Avoid using harsh chemicals or abrasive materials.
- **Storage:** Store the controller in a cool, dry place away from direct sunlight and extreme temperatures.
- **Battery Care:** If the controller will not be used for an extended period, ensure it is fully charged before storage. Avoid completely draining the battery frequently.
- **Charging Dock (Sold Separately):** If using the Smart Wake-Up Charging Station, ensure it is placed on a stable surface. The dock charges the controller and provides convenient storage for the 2.4G connection module.



Figure 15: BEITONG KP40 Wireless Controller docked in the Smart Wake-Up Charging Station (sold separately).

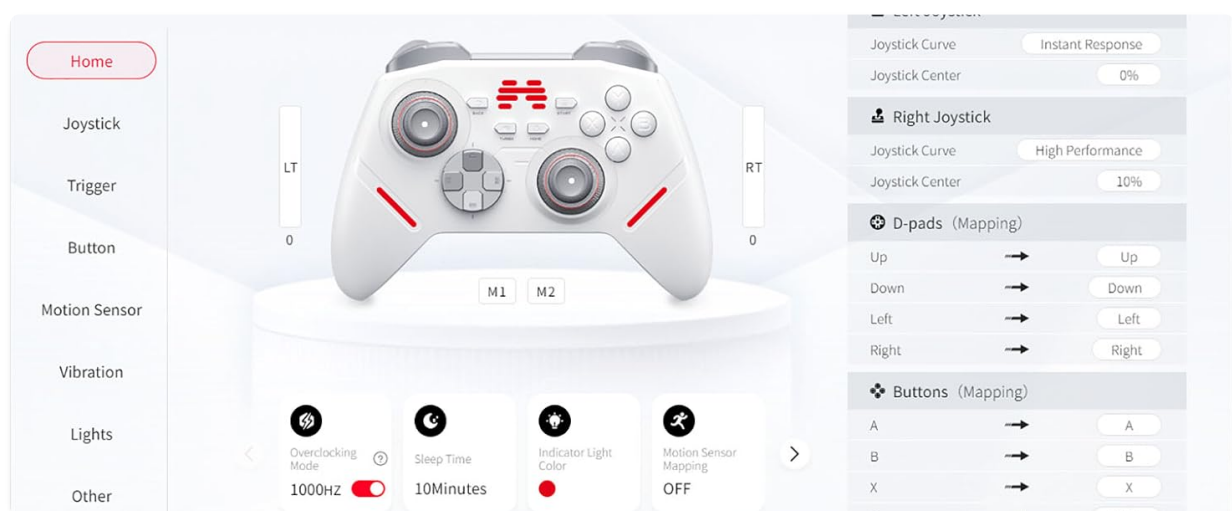


Figure 16: Smart Wake-Up Charging Dock Station, illustrating its charging function and storage for the 2.4G module.

7. TROUBLESHOOTING

Controller not connecting:

- Ensure the controller is charged.
- Verify the correct platform mode is selected (PC, Switch, Android, iOS).
- For 2.4GHz, ensure the dongle is securely inserted and try a different USB port.
- For Bluetooth, ensure Bluetooth is enabled on your device and the controller is in pairing mode. Remove previous pairings and re-pair if necessary.
- Try connecting via USB cable to check if the controller is functional.

Input lag or disconnection:

- Reduce distance between the controller and the receiver/device.
- Avoid interference from other wireless devices.
- Ensure the controller's battery is not low.
- Update controller firmware using the BEITONG Gamepad Assistant.

Joystick drift or inaccurate input:

- Calibrate joysticks using the BEITONG Gamepad Assistant software.
- Adjust joystick dead zones in the software.
- Ensure no physical obstructions are affecting joystick movement.

Buttons not responding:

- Check button mappings in the BEITONG Gamepad Assistant.
- Ensure the controller is in the correct platform mode.
- Clean around the buttons to remove any debris.

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Video 1: BEITONG KP40 Elite Controller Detail. This video provides a visual overview of the controller's key features and design elements.

8. SPECIFICATIONS

Feature	Detail
Model	KP40
Connectivity	Wired, Bluetooth, 2.4GHz Wireless
Polling Rate	1000Hz+ (Wired/2.4G dongle)
Joysticks	Adjustable TMR (30-90gf tension)
Triggers	Dual TMR (0.1mm precision, contactless)
Buttons	Optical Micro Switches
D-Pad	Hybrid, 8-direction sensitivity
Motion Control	6-Axis Gyroscope
Programmable Keys	2 Back Paddles (M1, M2)
Vibration	Dual Motors, 5 Adjustable Levels

Compatibility	PC, Switch/Switch 2, Android, Steam, iOS
Dimensions	7.72 x 5.47 x 2.91 inches
Weight	15.8 ounces
Battery	Rechargeable (internal)

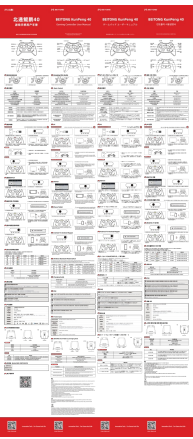

9. WARRANTY AND SUPPORT

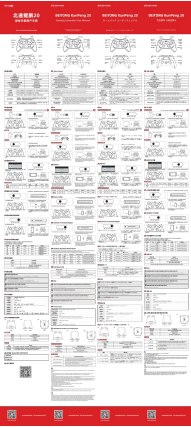
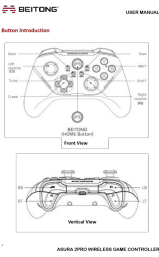


BEITONG technology team provides support for any issues with the controller within 24 hours. For technical assistance, warranty claims, or further inquiries, please contact BEITONG customer support through their official website or the contact information provided with your product.

For software updates and additional resources, please visit the official BEITONG website.

You can also scan this QR code for more information:[BEITONG Support](#)

Related Documents - KP40

	<p>BEITONG KP40 Elite Gaming Controller User Manual</p> <p>User manual for the BEITONG KP40 Elite Gaming Controller, featuring 2000Hz NearLink TMR Joystick, compatible with NS, PC, and Steam via Bluetooth. Includes setup, operation, and troubleshooting information.</p>
	<p>BEITONG KunPeng 40 Intelligent Gaming Controller User Manual</p> <p>User manual for the BEITONG KunPeng 40 Intelligent Gaming Controller (BTP-KP40) by Guangzhou Pinzhong Electronic Technology Co.,Ltd., covering setup, features, connectivity, and troubleshooting.</p>

	<p>BEITONG BTP-KP20 Wireless Gamepad User Manual</p> <p>Comprehensive user manual for the BEITONG BTP-KP20 Wireless Gamepad, detailing features, setup, connectivity for PC, Switch, iOS, and Android, and troubleshooting.</p>
	<p>BEITONG Asura 2PRO Wireless Game Controller User Manual & Guide</p> <p>Comprehensive user manual for the BEITONG Asura 2PRO Wireless Game Controller, covering setup, button functions, software customization, vibration, turbo settings, and calibration.</p>
	<p>BEITONG Asura 2 Wireless Gamepad User Manual - BTP-2185T2</p> <p>Comprehensive user manual for the BEITONG Asura 2 Wireless Gamepad (Model BTP-2185T2), covering setup, connection, functions, troubleshooting, and specifications.</p>
	<p>BEITONG BTP-2650S ASURA 3S Wireless Gamepad User Manual</p> <p>Comprehensive user manual for the BEITONG BTP-2650S ASURA 3S wireless gamepad, covering key introductions, power on/off, PC/TV connection, features, software configuration, battery life, and FCC compliance.</p>