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Machenike G1 Pro

Machenike G1 Pro 1000Hz Wireless Gaming Controller

User Manual
Model: G1 Pro | Brand: Machenike

1. Introduction

The Machenike G1 Pro is a high-performance wireless gaming controller designed for precision and versatility across multiple platforms. Featuring advanced TMR (Tunnel Magnetoresistance) joysticks and triggers, it offers exceptional accuracy and durability. This manual provides detailed instructions for setting up, operating, and maintaining your G1 Pro controller.

Key Features:

- **Dual TMR Triggers:** 255 levels of 1mm millisecond accuracy for stable, linear output.
- **Dual TMR Joysticks:** Zero-drift performance with 10-bit ADC sampling and 0.08ms response time, customizable circular/square gate options.
- **Tri-Mode Connectivity:** Supports wired (USB 2.0), 2.4GHz wireless, and Bluetooth connections.
- **Long Battery Life:** 600mAh Li-Ion battery provides up to 8 hours of gaming.
- **Ergonomic Design:** Asymmetrical grip and contoured joysticks for extended comfort.
- **Multi-Platform Compatibility:** Seamlessly works with PC, Windows, Android, iOS, and Nintendo Switch.
- **1000Hz Polling Rate:** Achieves ultra-low latency for responsive gameplay (2.4G wireless and wired).

2. Package Contents

Please verify that all items are present in your package:

- Machenike G1 Pro Wireless Gaming Controller
- 2.4GHz USB Receiver
- USB-C to USB-A Charging/Data Cable (2m)
- User Manual (this document)

Figure 1: Machenike G1 Pro Wireless Gaming Controller (White model).

3. Setup

3.1 Charging the Controller

Before first use, fully charge the controller. Connect the USB-C end of the provided cable to the controller's USB-C port and the USB-A end to a USB power source (e.g., PC, wall adapter). The indicator light will show charging status and turn off when fully charged.

3.2 Wired Connection (PC/Windows)

Connect the controller directly to your PC using the provided USB-C to USB-A cable. The controller will be automatically recognized by your system. This mode supports a 1000Hz polling rate for ultra-low latency.

3.3 2.4GHz Wireless Connection (PC/Windows)

1. Insert the 2.4GHz USB receiver into an available USB port on your PC.
2. Turn on the controller. It will automatically connect to the receiver.
3. This mode also supports a 1000Hz polling rate for optimal wireless performance.

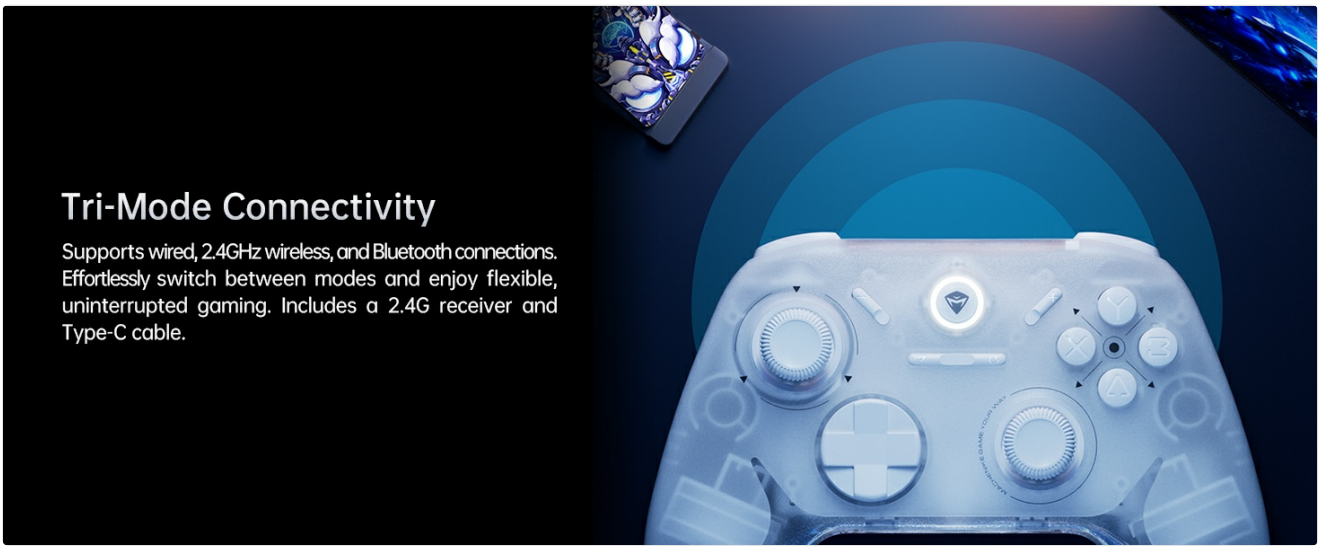

Figure 2: The G1 Pro offers versatile tri-mode connectivity: wired, 2.4GHz wireless, and Bluetooth.

3.4 Bluetooth Connection (Android/iOS/Switch)

1. Ensure the controller is powered off.
2. Press and hold the Bluetooth pairing button (refer to controller diagram in Operating Instructions) until the indicator light flashes rapidly.
3. On your device (Android, iOS, or Switch), go to Bluetooth settings and select "Machenike G1 Pro" from the list of available devices to pair.
4. Once paired, the indicator light will become solid.

4. Operating Instructions

4.1 Button Layout and Functions

The Machenike G1 Pro features a standard gaming controller layout with additional advanced components.

Figure 3: Overview of the Machenike G1 Pro Wireless Gaming Controller.

- **TMR Joysticks:** Left and Right analog sticks for precise 360-degree movement.
- **D-Pad:** Directional pad for digital input.
- **ABXY Buttons:** Standard action buttons.
- **Shoulder Buttons (LB, RB):** Top-mounted buttons.
- **TMR Triggers (LT, RT):** Analog triggers with precise pressure detection.
- **Function Button:** Used for special commands and mode switching.
- **Home Button:** Central button for system functions.

4.2 TMR Joysticks and Triggers

The G1 Pro utilizes advanced TMR (Tunnel Magnetoresistance) technology for its joysticks and triggers. This provides superior accuracy, eliminates drift, and offers a more consistent and linear response compared to traditional Hall effect sensors.

Figure 4: Detail of the Dual TMR Joysticks, highlighting their precision and durability.

Figure 5: The Quad TMR System integrates TMR technology for both joysticks and triggers.

4.3 Dual Vibration Motors

The controller is equipped with asymmetric rotor motors that provide immersive vibration feedback, synchronized with in-game events for a realistic gaming experience.

Figure 6: Illustration of the dual vibration motors providing haptic feedback.

4.4 Multi-Platform Compatibility

The G1 Pro controller offers broad compatibility:

- **PC/Windows:** Connect via wired USB or 2.4GHz wireless receiver.
- **Nintendo Switch:** Connect via Bluetooth. Note that button legends on the controller are standard ABXY, while Switch uses BAYX. The controller supports remapping for Switch compatibility (refer to advanced settings).
- **Android/iOS:** Connect via Bluetooth.

Figure 7: The G1 Pro is compatible with PC, Switch, Android, HarmonyOS, and car entertainment systems.

4.5 Customization with Keylinker 2.0 App

Personalize your gaming experience using the Keylinker 2.0 App. This application allows for fine-tuning various controller settings:

- Button Settings (remapping)
- Vibration Intensity adjustment
- Joystick Sensitivity calibration
- Trigger Functionality adjustment
- Turbo Functions setup
- Controller Testing

Download the Keylinker 2.0 App from the official Machenike website or your device's app store.

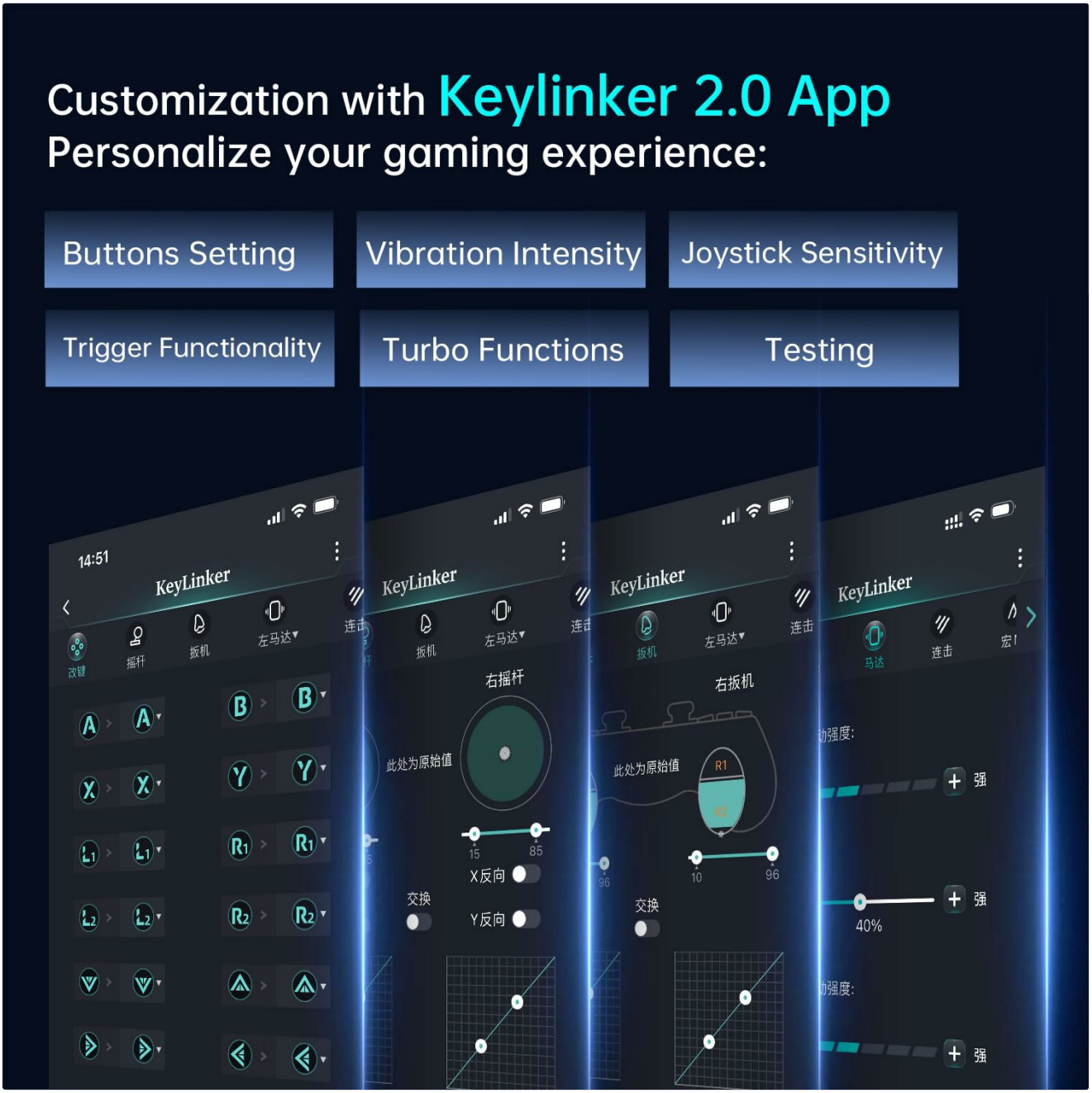

Figure 8: The Keylinker 2.0 App provides extensive customization options for your controller.

4.6 Polling Rate

The G1 Pro supports a 1000Hz polling rate for wired and 2.4GHz wireless connections, ensuring minimal input lag. Bluetooth connections operate at 125Hz.

4.7 Cooperative Play (Dual-Core Receiver)

The 2.4G receiver supports simultaneous connection with two controllers, enabling cooperative play. To set up:

1. Connect G1 Pro via 2.4G mode.
2. Power off Controller B, then connect Controller B via Bluetooth.
3. Power on G1 Pro; it will automatically reconnect.

Note: Compatibility may vary for some controllers due to protocol differences. Contact customer support for details.

4.8 Official Product Videos

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Video 1: Overview of the Machenike G1 Pro Wireless Gaming Controller, showcasing its features and design.

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Video 2: Demonstrating the Machenike G1 Pro PC Game Controller in action across various games and platforms.

5. Maintenance

5.1 Cleaning

To clean your controller, use a soft, dry cloth. For stubborn dirt, slightly dampen the cloth with water or a mild, non-abrasive cleaner. Avoid using harsh chemicals or abrasive materials, as they can damage the controller's finish and internal components.

5.2 Storage

Store the controller in a cool, dry place away from direct sunlight, extreme temperatures, and high humidity. When not in use for extended periods, ensure the controller is fully charged before storage to preserve battery health.

5.3 Battery Care

- Avoid completely draining the battery frequently.
- Do not expose the battery to extreme heat or cold.
- If the controller will not be used for a long time, charge it to about 50% every few months to prevent deep discharge.

6. Troubleshooting

6.1 Controller Not Connecting

- **Check Battery:** Ensure the controller is sufficiently charged.
- **Verify Mode:** Make sure the controller is in the correct connection mode (wired, 2.4GHz, or Bluetooth) for your device.
- **Re-pair:** For wireless connections, try re-pairing the controller with your device.
- **USB Receiver:** For 2.4GHz, ensure the USB receiver is securely plugged in and not obstructed. Try a different USB port.
- **Driver Issues (PC):** On PC, check Device Manager for any driver conflicts. Reinstalling drivers might be necessary.

6.2 Input Lag or Unresponsive Controls

- **Polling Rate:** Ensure you are using wired or 2.4GHz wireless for the lowest latency (1000Hz). Bluetooth has a higher latency (125Hz).
- **Interference:** For wireless connections, move closer to the receiver/device and minimize other wireless interference sources.
- **Battery Level:** Low battery can sometimes affect performance.

6.3 Joystick Drift or Inaccuracy

- **Recalibration:** Use the Keylinker 2.0 App to recalibrate the joysticks.
- **Firmware Update:** Check the Machenike website for any available firmware updates for the controller, which may address performance issues.
- **Cleaning:** Ensure no debris is obstructing the joystick movement.

7. Specifications

Feature	Detail
Model Name	Machenike G1 Pro Tri-mode Wireless Gaming Controller
Connection Modes	2.4G / Bluetooth / Wired (USB-C)
Battery Capacity	600mAh Lithium Metal (included)
Vibration Intensity	Adjustable
Platform Support	PC, Switch, Android, iOS, HarmonyOS, Car Systems
Triggers	TMR Triggers (255 levels, <1mm response)
Joysticks	TMR Joysticks (10-bit ADC, 0.08ms response)
Main Buttons	Conductive Silicone (1 million press lifespan)
D-Pad	Conductive Silicone
Joystick Polling Rate	Wired: 1000Hz, 2.4G: 1000Hz, Bluetooth: 125Hz
Joystick Sampling Resolution	Linear 512 levels
Product Dimensions	6.69 x 5.31 x 2.36 inches
Item Weight	11.7 ounces
Manufacturer	Machenike
Country of Origin	China
Date First Available	September 24, 2024

Figure 9: Detailed technical specifications for the Machenike G1 Pro.

8. Warranty and Support

For warranty information, technical support, and frequently asked questions, please visit the official Machenike website or contact their customer service directly. Keep your purchase receipt as proof of purchase for warranty claims.

Machenike Official Website: www.machenike.com

Machenike US Store on Amazon: Amazon Store Link

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