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GuliKit TT Pro

GuliKit TT Pro Wireless Game Controller Instruction Manual

1. IMPORTANT SAFETY INFORMATION

Please read all safety instructions carefully before using the GuliKit TT Pro controller. Keep this manual for future reference.

- Do not expose the controller to extreme temperatures, humidity, or direct sunlight.
- Avoid dropping or subjecting the controller to strong impacts.
- Do not attempt to disassemble or modify the controller. This will void the warranty.
- Keep the controller away from children and pets.
- Use only the provided charging cable and adapter to prevent damage.

2. PACKAGE CONTENTS

The GuliKit TT Pro package includes the following items:

- GuliKit TT Pro Controller
- PC05 Controller Converter
- Replaceable ABXY Button Tool
- Replaceable Dual-Layer D-pad
- 4 Back Buttons
- Type-C Charging Cable
- Protective Case
- Instruction Manual

3. CONTROLLER LAYOUT

Familiarize yourself with the buttons and features of your GuliKit TT Pro controller.



GuliKit

TMR電磁式スティック

- ・4000段階超高精度
- ・圧倒的な耐久性
- ・テンション調節対応
- ・「ドリフト現象」を完全に解消

セルフ潤滑スティック構造

驚くほど滑らかな操作感を実現



Switch / Switch 2

スリープ解除対応



GuliKit 自社開発・生産「磁気浮上モーター」

「磁気浮上モーター」とは？

モーター種類	応答速度	応答周波数	振動の強さ (加速度)
ローターモーター	遅い	単一周波数	強い
HDモーター	速い	可変周波数	弱め
GuliKit 磁気浮上モーター	速い	可変周波数	強い

256段階

ホール電磁トリガー

より正確で長寿命



導電ゴム製ABXYボタン

・引っ掛かりやチャタリングを防止

・PC配列対応の交換用
キーを同梱



6軸ジャイロセンサー内蔵

Switchの体感操作対応ゲームでも直感的なプレイを楽しめます

ゼロ消費電力スタンバイ設計

満充電後、長期間放置してもバッテリー劣化や放電の心配なし
必要なときにすぐ使える安心設計です

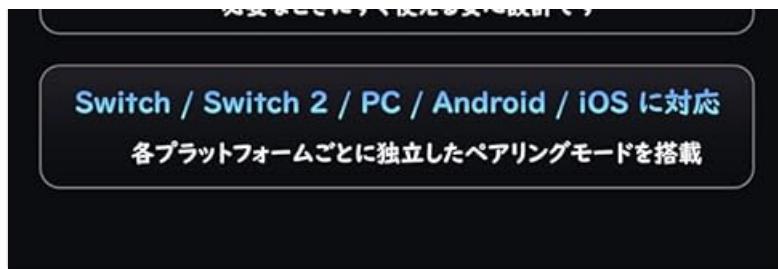


Image: Overview of the GuliKit TT Pro controller highlighting key features like TMR electromagnetic sticks, Hall effect triggers, 6-axis gyro, and zero power standby design.

- **TMR Electromagnetic Sticks:** 4000-stage high precision, superior durability, tension adjustable, completely eliminates drift.
- **Self-Adjusting Stick Structure:** Provides a smooth and precise operating feel.
- **256-Stage Hall Effect Triggers:** More precise and longer lasting.
- **Conductive Rubber ABXY Buttons:** Prevents sticking and chattering. Includes replaceable keycaps for PC layout.
- **6-Axis Gyro Sensor:** Enjoy smooth and accurate motion control in Switch motion-sensing games.
- **Zero Power Consumption Standby Design:** Worry-free design that allows for long-term storage without battery degradation or over-discharge.

4. SETUP AND CONNECTION

4.1. Firmware Update

Before first use, please ensure your controller has the latest firmware. Visit the official GuliKit website for update instructions and software.

4.2. Connecting to Nintendo Switch / Switch 2

Follow these steps to connect your GuliKit TT Pro controller to your Nintendo Switch or Switch 2 console:

1. Turn on the controller. Double-click the mode button to set it to NS mode.
2. Long press the pairing button on the controller. The indicator lights will flash rapidly, indicating it is in pairing mode.
3. Put your Switch / Switch 2 console into sleep mode (black screen).
4. Press the HOME button on one of your Joy-Cons to wake up the console.
5. Navigate to the 'Controllers' menu on your Switch / Switch 2 and select 'Change Grip/Order' to enter the pairing screen.
6. The controller will automatically pair with the console. Once connected, the indicator lights will stop flashing and remain solid.

You can also use the controller to wake up your Switch / Switch 2 from sleep mode after initial pairing.

Your browser does not support the video tag.

Video: Demonstrates how to connect the GuliKit TT Pro controller to a Nintendo Switch 2 console, including setting the mode, entering pairing, and waking the console from sleep.

4.3. Connecting to PC / Android / iOS

The GuliKit TT Pro supports various platforms. Refer to the specific connection instructions for PC, Android, or iOS in the full manual or GuliKit support resources.

5. OPERATING FEATURES

5.1. Ultra-Low Latency Wireless Technology

The GuliKit TT Pro utilizes proprietary Hyperlink2 communication technology for enhanced connection stability and astonishingly low latency:

- **Wired Connection:** As low as 0.00216 seconds.
- **Wireless Connection (PC):** As low as 0.00262 seconds.
- **Bluetooth Connection:** 2.62ms latency with 730Hz polling rate.

This ensures a smooth and responsive gaming experience, especially critical for competitive FPS games.

なぜポーリングレートが1000Hzなのに、「トップクラスの低遅延」と言えるのですか？

ポーリングレート（1:割率）と実際の入力遅延（レイテンシ）は、同じ指標ではないためです。実際の遅延を正確に評価するには、GPDL（Gamepad Latency）などの第三者製オープンソース測定ツールによる実測が必要となります。以下に、それとの違いについてご説明いたします。

■ **ポーリングレート (Polling Rate)** とは:1秒間にコントローラーがPCやゲーム機へデータを送信する回数。単位: Hz (ヘルツ)
(例:1000Hz=1秒間に1000回入力データを送信)

■ **遅延 (Latency)** とは:ボタンを押してから、ホスト側が入力を受信・処理し、ゲームに反映されるまでの時間。単位: ms (ミリ秒/1,000分の1秒)

※ 1000Hz=遅延1msという意味ではありません。1msはあくまで「データ送信間隔」を示す数値であり、実際の入力遅延とは異なる概念です。

ポーリングレートは高ければ高いほど良いのでしょうか？

必ずしもそうではありません。

PCやゲーム機は、受信した入力データを処理したうえで映像を出力しますが、現在主流の高性能ディスプレイでもリフレッシュレートは最大約240Hz程度です。そのため、必要以上に高いポーリングレート過剰な入力データ量は、環境によってはCPU負荷の増加、ゲームのフレームレート低下を招く可能性もあります。

■ **まとめ:240Hz以下のディスプレイ環境では、300Hz以上のポーリングレートで十分実用的です。**
体感に最も影響するのは、ポーリングレートの数値そのものではなく、実測された入力遅延 (ms) がどれだけ小さいか

Image: GuliKit Hyperlink 2 technology demonstrating ultra-low latency for both wired and wireless connections, verified by third-party software.

5.2. TMR Tension Adjustable Sticks

The controller features GuliKit's self-developed 4000-stage ultra-high precision TMR (Magnetic Sensor) sticks. These sticks are designed for high durability, preventing drift even after long-term use. A hidden adjustment mechanism allows fine-tuning of stick sensitivity and tension, accommodating various playstyles from precise FPS aiming to agile movements.

GuliKit Hyperlink 2 技術搭載 – 史上最速クラスの反応速度

ユースケース	ポーリングレート	ボタン遅延	スティック遅延
TT有線	1000Hz	2.16ms	2.4ms
TT無線	730Hz	2.62ms	2.72ms
標準Bluetooth	125-250Hz	8-30ms	12-30ms

・遅延テストはサードパーティのオープンソースツール「GPDL」を使用して実施しました。

・Win 10 / Wins 11 環境でのご注意: Bluetooth設定内の「“迅速ペアリング (Swift Pair)”を使用して接続する通知を表示」はオフにすることを推奨します。この項目がオンの場合、約1ms前後の遅延増加・ポーリングレートが約50~300程度低下する可能性があります。

・2.4GHz帯のBluetoothとの干渉を避けるため、5GHz帯のWi-Fiを推奨します。Bluetoothとの干渉によりポーリングレートが低下する可能性があります。



Image: Exploded view of the GuliKit TT Pro's TMR tension adjustable sticks, highlighting drift prevention and 4000-stage precision.

5.3. 2-in-1 Smart Triggers

The 256-stage Hall effect triggers feature a micro-switch structure, allowing you to switch between analog and digital modes. This provides fine acceleration control in racing games and rapid click-style responses in FPS

games.



Image: Close-up of the GuliKit TT Pro's micro switch triggers, illustrating the ability to switch between analog and digital modes.

5.4. Advanced Vibration System & Gyro Sensor

Equipped with GuliKit's self-developed magnetic levitation motors, the controller offers both high-speed response and powerful vibration. It features 3 vibration modes (HD Vibration, Super Sense, Rotor Vibration) and 3 intensity levels (Weak, Medium, Strong), providing a total of 9 customizable feedback options. The high-precision 6-axis gyro sensor enables smooth and accurate motion control for games that support it.



Image: Diagram illustrating the GuliKit TT Pro's second-generation Super Sense vibration system, offering 3 vibration modes and 3 intensity levels for a total of 9 feedback options.

5.5. Customizable Back Buttons

The TT Pro features 4 removable back buttons. Each button can be assigned to a single key (back buttons do not support auto-fire function). This allows you to move frequently used operations from FPS or fighting games to the back, minimizing finger movement for faster and more stable input.

マクロループ対応

スティック・ボタン・トリガーの入力操作をまとめて記録ワンボタンで再生
(※ TT Maxは背面ボタンごとに最大30秒のマクロ記録に対応)



マクロ機能の使い方:

操作記録開始 : 学習ボタンを3秒長押し

一回再生 :

学習ボタンを一回押す

記録したい操作を入力

連続再生 :

学習ボタンを二回押す

学習ボタンを短押し記録終了

TT MAX マクロ時間 : 10分間

TT PRO マクロ時間 : 10秒

録画したマクロデータはGuliKit KK3コントローラーと共有できる

Image: Rear view of the GuliKit TT Pro controller showing the 4 removable back buttons and their configuration method.

5.6. RGB Lighting Effects

The controller is equipped with 5 types of RGB lighting effects. These lights not only enhance visual appeal but also serve as intuitive indicators for mode changes and status notifications.

5種類のRGBライト効果

モード変更や状態通知を“光”で直感的に把握



Image: Illustration of the GuliKit TT Pro's RGB lighting effects, including constant light, stick flow, colorful flow, trigger flow, and constant off, with different stick sensitivities indicated by color.

5.7. Macro Loop & TURBO Auto Fire

The macro function allows you to record a series of operations, including stick movements, button presses, and trigger actions, for up to 10 seconds (TT Pro). Complex continuous operations can be replayed with a single button press, providing a significant advantage in situations requiring precision. Recorded macro data can be shared with GuliKit KK3 controllers. Additionally, AUTO (fully automatic) and TURBO (semi-automatic) auto-fire functions reduce operational burden.



Image: Instructions for using the macro loop function on the GuliKit TT Pro, detailing how to record and play back sequences of up to 10 seconds.

6. SPECIFICATIONS

Feature	Description
Battery	1 Non-standard Battery (Included)
Age Range	All Ages
Package Size	18.4 x 12.5 x 7.4 cm
Weight	560 g
ASIN	B0G13GV4R1
Country of Origin	China
Battery Capacity	950mAh (up to 28 hours continuous use with RGB off and auto-fire on)

7. MAINTENANCE

To ensure the longevity and optimal performance of your GuliKit TT Pro controller, follow these maintenance guidelines:

- Clean the controller regularly with a soft, dry cloth. Do not use harsh chemicals or abrasive materials.
- Store the controller in its protective case when not in use to prevent dust and scratches.
- Avoid exposing the controller to liquids. If it gets wet, power it off immediately and allow it to dry completely before attempting to use it again.
- Charge the battery regularly, even if not in frequent use, to maintain battery health.

8. TROUBLESHOOTING

If you encounter any issues with your GuliKit TT Pro controller, please try the following troubleshooting steps:

- **Controller not connecting:** Ensure the controller is charged, in the correct mode (e.g., NS mode for Switch), and within range. Try re-pairing the controller.

- **Input lag or unresponsiveness:** Check for interference from other wireless devices. Ensure the controller's firmware is up to date. Try a wired connection if available.
- **Stick drift:** Perform a stick calibration through your console or PC settings. If the issue persists, contact GuliKit support.
- **Buttons not responding:** Ensure the controller is clean and free of debris. Check if any buttons are stuck.
- **Battery not charging:** Verify the charging cable and adapter are working correctly. Try a different USB port or power source.

For further assistance, please refer to the official GuliKit support website or contact customer service.

9. WARRANTY AND SUPPORT

The GuliKit TT Pro controller comes with a manufacturer's warranty. Please retain your proof of purchase for warranty claims. For detailed warranty terms, technical support, and frequently asked questions, visit the official GuliKit website:

www.gulikit.com

You can also contact GuliKit customer support directly for any product-related inquiries.

10. PRODUCT OVERVIEW VIDEO

Watch this video for a comprehensive overview of the GuliKit TT Pro controller's features and capabilities.

Your browser does not support the video tag.

Video: A detailed product overview of the GuliKit TT Pro controller, showcasing its advanced features such as TMR joysticks, smart triggers, customizable D-pad and back buttons, magnetic levitation motors, RGB lighting, and multi-platform compatibility.